STR-LV500

SERVICE MANUAL

AEP Model
UK Model

Ver 1.1 2004. 03

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SPECIFICATIONS

Amplifier section

POWER OUTPUT
Rated Power Output at Stereo Mode
(8 ohms 1 kHz, DIN) 50 W + 50 W
Reference Power Output
(4 ohms 1 kHz, DIN) FRONT[1]: 75 W + 75 W
CENTER[1]: 75 W
SURROUND[1]: 75 W + 75 W

1) Depending on the sound field settings and the source, there may be no sound output.

Frequency response 20 Hz – 20 kHz
Inputs (Analog) Sensitivity: 500 mV
Impedance: 50 kilohms
S/N[2]: 84 dB
(A, 500 mV[3])

2) INPUT SHORT.
3) Weighted network, input level.

Inputs (Digital)

DVD (Coaxial)	Impedance: 75 ohms S/N: 90 dB (A, 20 kHz LPF)
DVD, TV/SAT, HDD/MD (Optical)	S/N: 90 dB (A, 20 kHz LPF)

Sampling frequency
COAX, OPT 96 kHz
Outputs
LINE (sub woofer) Voltage: 2 V
Impedance: 1 kilohms

FM tuner section

Tuning range 87.5 - 108.0 MHz
Antenna terminals 75 ohms, unbalanced
Intermediate frequency 10.7 MHz
Sensitivity
Mono: 18.3 dBf, 2.2 µV/75 ohms
Stereo: 38.3 dBf, 22.5 µV/75 ohms
Useable sensitivity 11.2 dBf, 1 µV/75 ohms
S/N
Mono: 76 dB
Stereo: 70 dB
Harmonic distortion at 1 kHz
Mono: 0.3%
Stereo: 0.5%
Separation 45 dB at 1 kHz
Frequency response 30 Hz – 15 kHz, +0.5/–2 dB
Selectivity 60 dB at 400 kHz

– Continued on next page –

FM STEREO
FM-AM RECEIVER

9-877-452-02
2004C02-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

AM tuner section

Tuning range	531 – 1,602 kHz
Antenna	Loop antenna
Intermediate frequency	450 kHz
Usable sensitivity	50 dB/m (at 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5% (50 mV/m, 400 Hz)
Selectivity	
At 9 kHz:	35 dB

General

Power requirements	230 V AC, 50/60 Hz
Power consumption	95 W
Power consumption (during standby mode)	0.7 W
Dimensions	430 x 65 x 288 mm including projecting parts and controls
Mass (Approx.)	2.7 kg

Supplied accessories

FM wire antenna (1)
AM loop antenna (1)
Remote commander (1)
R6 (size-AA) batteries (2)
Speaker plug (5)
Wrench (1)

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

Specifications 1

1. GENERAL 3

2. SERVICING NOTES 4

3. TEST MODE 7

4. DIAGRAMS

4-1. IC Pin Function Descriptions 9
4-2. Block Diagrams – Tuner/DSP Section – 14
Block Diagrams – Display/Power Section – 15
4-3. Printed Wiring Boards – Digital Section (Side A)– 16
Printed Wiring Boards – Digital Section (Side B)– 17
4-4. Schematic Diagram – Digital Section (1/3)– 18
4-5. Schematic Diagram – Digital Section (2/3)– 19
4-6. Schematic Diagram – Digital Section (3/3)– 20
4-7. Schematic Diagram – Power Section– 21
4-8. Printed Wiring Boards – Power Section (Side A)– 22
Printed Wiring Boards – Power Section (Side B)– 23
4-9. Printed Wiring Boards – Amp Section (Side A)– 24
Printed Wiring Boards – Amp Section (Side B)– 25
3-10. Schematic Diagram – Amp Section (1/2)– 26
3-11. Schematic Diagram – Amp Section (2/2)– 27
3-12. Printed Wiring Boards – Display Section– 28
3-13. Schematic Diagram – Display Section– 29
3-14. IC Block Diagrams 30

5. EXPLODED VIEWS

5-1. Front Panel Section 31
5-2. Cabinet Section 32

6. ELECTRICAL PARTS LIST 33

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

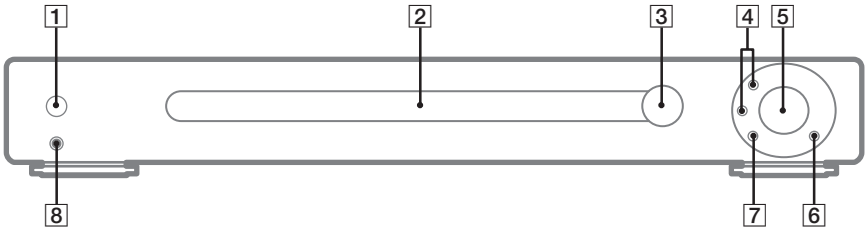
This section is extracted from instruction manual.

List of button locations and reference pages

Main unit

ALPHABETICAL ORDER

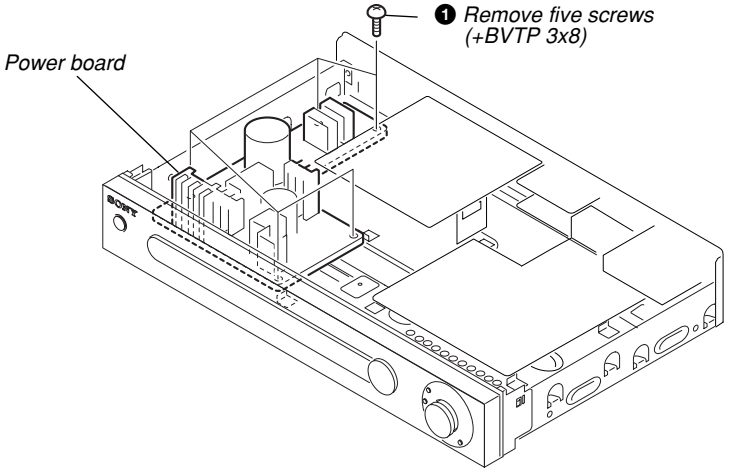
Display [2]
INPUT SELECTOR [3]
MUTING [6]
PHONES jack [8]
PRESET TUNING +/– [4]
SOUND FIELD [7]
VOLUME [5]
I/⏻ (power) [1]

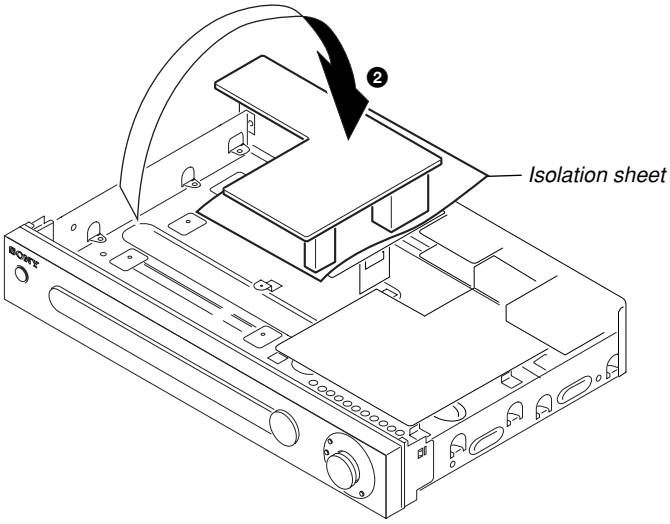


SECTION 2
SERVICIN NOTE

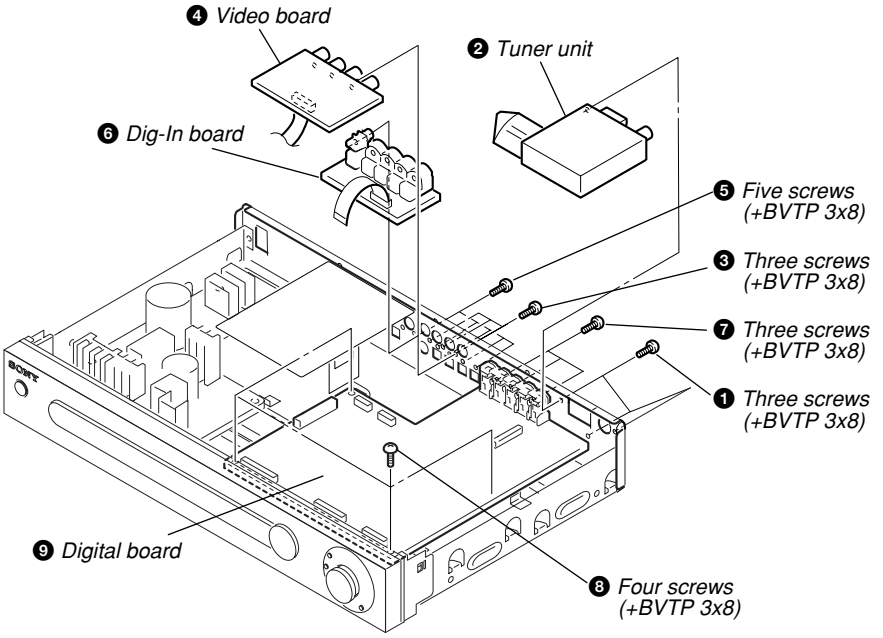
SERVICE POSITION

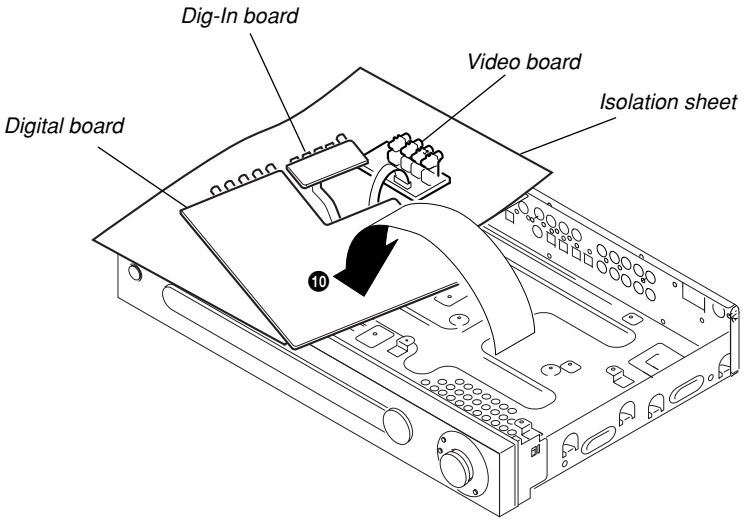
• POWER BOARD



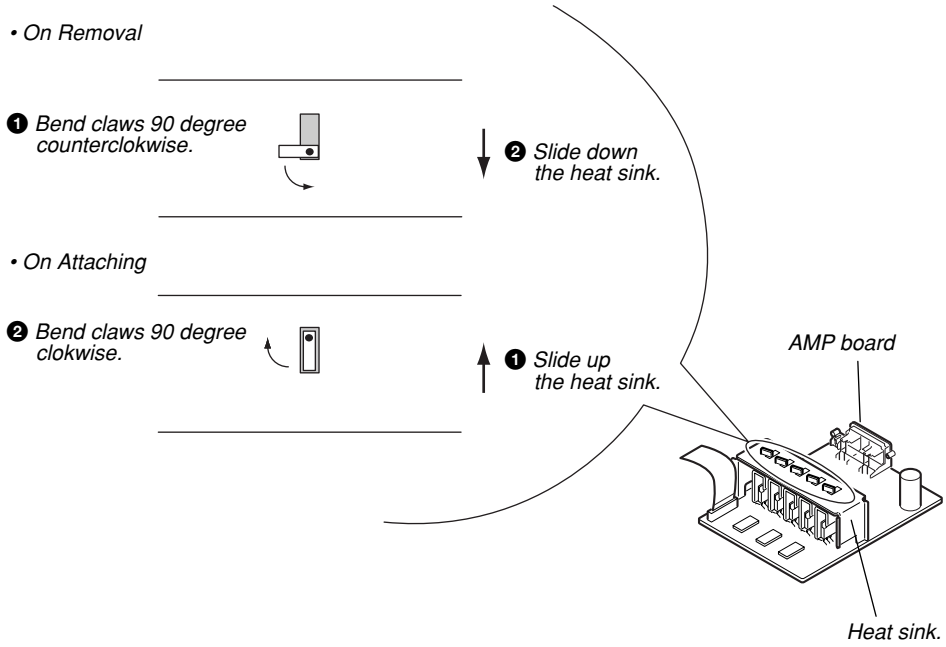


• DIGITAL, DIG-IN, VIDEO BOARD


❹ Video board
❷ Tuner unit
❻ Dig-In board
❺ Five screws (+BVTP 3x8)
❸ Three screws (+BVTP 3x8)
❼ Three screws (+BVTP 3x8)
❶ Three screws (+BVTP 3x8)
❾ Digital board
❽ Four screws (+BVTP 3x8)



• **AMP BOARD**


• On Removal
❶ Bend claws 90 degree counterclokwise.
❷ Slide down the heat sink.
• On Attaching
❷ Bend claws 90 degree clokwise.
❶ Slide up the heat sink.
AMP board
Heat sink.

SECTION 3
TEST MODE

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  By using the main unit, while depressing the [SOUND FIELD] button, press the power [I/⏻] button to turn on the main power. The message "S. F. CLR" appears and initialization is performed.

SPECIAL DUPLEX KEY ON MODE

*This operation for making possible the key duplex pressing of remote controller.
*Procedure
  By using main unit, while depressing the [PRESET TUNNING -] button, press the power [I/⏻] button to turn on the main power.

FACTORY PRESET MODE

* All preset contents are reset to the default setting.
* Procedure:
  When the set is SPECIAL DUPLEX KEY ON mode, by using remote controller, press [ENTER] button three times, then press the [MAIN MENU] button one time, and then press the [A.F.D.] button one time.
  The message "FACTORY" appears and switch off the set.
  Press the power [I/⏻] button again, and the present contents are reset to the default values.

ALL CLEAR MODE

* The all preset value is cleared when this mode is activated.
* Procedure :
  When the set is SPECIAL DUPLEX KEY ON mode, by using remote controller, press [ENTER] button three times, then press the [MAIN MENU] button one time, and then press the [→] button one time. The message "CLEARED" appears and clear all preset value.

FLUORESCENT INDICATOR TUBE TEST MODE

* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
* Procedure:
  When the set is SPECIAL DUPLEX KEY ON mode, by using remote controller, press [ENTER] button three times, then press the [MAIN MENU] button one time, and then press the [↑] button one time.
  All segments turn on.

SP SP A SP B DIGITAL EX PRO LOGIC II DTS-ES NEO : 6 MPEG-2 AAC MEMORY
OPT COAX MULTI CH IN 12 D.RANGE EQ STEREO MONO RDS SLEEP
L C R
SW LFE
SL SSB SR
dB
kHz
mft.
MHz

SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.
* Procedure:
  When the set is SPECIAL DUPLEX KEY ON mode, by using remote controller, press [ENTER] button three times, then press the [MAIN MENU] button one time, and then press the [←] button one time. The model name, destination and the software version are displayed.

KEY CHECK MODE

* Button check
* Procedure:
  When the set is SPECIAL DUPLEX KEY ON mode, by using remote controller, press [ENTER] button three times, then press the [MAIN MENU] button one time, and then press the [↓] button one time.
  "REST XX" appears.
  Every pressing of any button other than [I/⏻] counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed "REST 00" appears.

SWAP ALL MODE

* For test all channels working correctly with only L/R source input.
* Procedure:
  When the set is SPECIAL DUPLEX KEY ON mode, by using remote controller, press [ENTER] button three times, then press the [MAIN MENU] button one time, and then press the [2CH] button one time.
  Set the SOUND FIELD to A.F.D AUTO.
  "SWAP ALL" appear : L-CH input → Front L, Surround L, center channel output.
  R-CH input → Front R , Surround R , Sub Woofer channel output.

HISTORY MODE

* Display embedded information.
  For check amplifier condition when protector happen, Input source, Sound Field setting, Volume level, Tone setting and Operation time .
* Procedure :
  When the set is SPECIAL DUPLEX KEY ON mode, by using remote controller, press [ENTER] button three times, then press the [MAIN MENU] button one time, and then press the [VOLUME +] button one time.

DSP TEST MODE

* DSP tests are performed.
* Procedure :
  When the set is SPECIAL DUPLEX KEY ON mode, by using the remote controller, press [ENTER] button three times, then press the [MAIN MENU] button one time and then press the [MUTING] button one time.
  • Select the item by pressing Cursor button ([↑] or [↓]).
  • Select the function by pressing Cursor button ([←] or [→]).

RELEASE THE TEST MODE

To release the test mode, turn off the main power.

Items	Function	Description	Remark
SWAP	NORM	Normal channel output	Selection of setting output channels
	ALL	Left input → Front Left, Surround Left, Center channel output Right input → Front Right, Surround Right, Sub Woofer channel output	
	C SW	Left input → Center channel output Right input → Sub Woofer channel output	
	SLSR	Left input → Surround Left channel output Right input → Surround Right channel output	
DSP Version	–	"DSPV XXX" is displayed. Three large charactors are the dsp version that is being used.	
DSP communication	–	When this item is selected the message will be displayed " OK " if the checking is correct. " ERROR " will be displayed in a case of an error.	Checking communication between DSP and microcom
Bass Management	–	Not used for service	
Main Speaker cut off Freq.	–	Not used for service	
LFE cut off Freq.	–	Not used for service	
Co-ef. Read Address	–	Not used for service	
Co-ef. Read Data	–	Not used for service	
Co-ef. Write Address	–	Not used for service	
Co-ef. Write Data	–	Not used for service	
SRAM	OFF	" RAMC. OFF " will be displayed in a case of no checking.	Checking communication between DSP and SRAM
	ON	By pressing Cursor button the checking starts. " RAMC. PASS " will be displayed if the checking is good. " RAMC. NG " will be displayed if an error occurs.	
Total operation time	–	TTL-XXXX xx is displayed.	Four large charactors are hour. Two small charactors are minutes.
Longest Power ON time	–	LNG-XXXX xx is displayed.	
Output time less than –50dB volume	–	V50-XXXX xx is displayed.	
Output time less than –40dB volume	–	V40-XXXX xx is displayed.	
Output time less than –30dB volume	–	V30-XXXX xx is displayed.	
Output time less than –20dB volume	–	V20-XXXX xx is displayed.	
Output time less than –10dB volume	–	V10-XXXX xx is displayed.	
Output time less than 0dB volume	–	V00-XXXX xx is displayed.	
Protector count value	–	PROTXXXX xx is displayed.	0 to 255
Fuse open count value	–	FUSEXXXX xx is displayed.	
EEPROM CONDITION	–	E- XXXX is displayed. S RST → Super Reset : first time use EEPROM or test pattern corrupted FAIL → EEPROM read / write with microcom has problem V CHG → Software version change D CHG → Destination / model change CLEAR → Back up data initialize NORM → Normal AC on	
EEPROM READ	–	E- XXX-XX is displayed. First four hex code is EEPROM address (controlled by +/– button). Last two hex code is EEPROM data.	
EEPROM Super Reset	–	S.RST- XXX is displayed. When YES is selected, press Cursor button to clear all EEPROM data	
DSP HALT MODE	–	HALT NO or HALT YES is displayed.	

SECTION 4
DIAGRAMS

4-1. IC Pin Function Descriptions

• IC115 CXD9617R (AUDIO DSP) (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	XRST	I	Rest input from the system control
3	EXTIN	I	Not used (connected to ground)
4	FS2	I	Not used (connected to ground)
5	VDD1	—	Power supply (+2.5V)
6	FS1	I	Not used (connected to ground)
7	PLOCK	O	Not used (open)
8	VSS	—	Ground terminal
9	MCLK1	I	Clock input (13.5MHz)
10	VDD1	—	Power supply (+2.5V)
11	VSS	—	Ground terminal
12	MCLK2	O	Clock output (13.5MHz)
13	MS	I	Not used (connected to ground)
14	SCKOUT	O	Internal system clock output to AK4527B
15	LRCKI1	I	Not used (open)
16	VDDE	—	Power supply (+3.3V)
17	BCKI1	I	Not used (open)
18	SDI1	I	Serial data input from AK4527B
19	LRCKO	O	Sampling clock output to AK4527B
20	BCKO	O	Bit clock output to AK4527B
21	VSS	—	Ground
22	KFSIO	I	Audio clock (384fs/256fs) input from LC89056W
23 to 25	SDO1 to SDO3	O	Serial data output to AK4527B
26	SDO4	O	Not used (open)
27	SPDIF	O	Not used (open)
28	LRCKI2	I	Sampling clock input from LC89056W
29	BCKI2	I	Bit clock input from LC89056W
30	SDI2	I	Serial data input from LC89056W
31	VSS	—	Ground
32	HACN	O	Acknowledge output to MB90478
33	HDIN	I	Serial data input from MB90478
34	HCLK	I	Clock input from MB90478
35	HDOUT	O	Serial data output to MB90478
36	HCS	I	Chip selection input from MB90478
37	SDCLK	O	Not used (open)
38	CLKEN	O	Not used (open)
39	RAS	O	Not used (open)
40	VDDI	—	Power supply (+2.5V)
41	VSS	—	Ground
42	CAS	O	Not used (open)
43	DQM/OE0	O	Not used (open)
44	CSO	O	Chip selection output to the SRAM
45	WEO	O	Write enable output to the SRAM
46	VDDE	—	Power supply (+3.3V)
47	WMD1	I	Not used (connected to ground)
48	VSS	—	Ground
49	WMD0	I	Not used (connected to VDD)
50	PAGE2	O	Not used (open)
51	VSS	—	Ground
52	PAGE1	O	Not used (open)

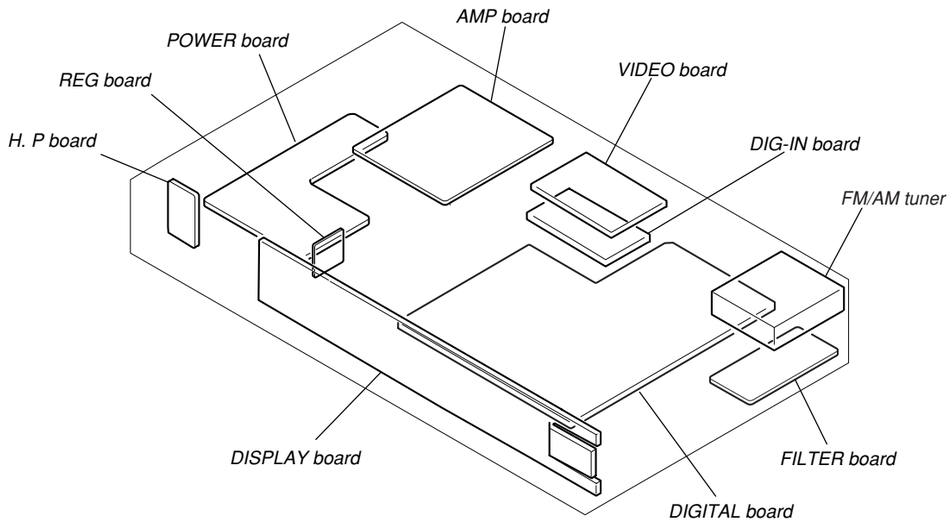
Pin No.	Pin Name	I/O	Description
53	PAGE0	O	Not used (open)
54	BOOT	I	Not used (connected to ground)
55	BTACT	O	Not used (open)
56	BST	I	Boot strap signal input from MB90478
57	MOD1	I	Mode input (connected to VDD)
58	MOD0	I	Mode input (connected to ground)
59	EXLOCK	I	Lock signal input to LC89056W
60	VDDI	—	Power supply (+2.5V)
61	VSS	—	Ground
62	A17	O	Not used (open)
63	A16	O	Not used (open)
64 to 66	A15 to A13	O	Address bus output to the SRAM
67 to 69	GP10 to GP8	I/O	External memory data I/O general purpose port terminal GP
70	VDDI	—	Power supply (+2.5V)
71	VSS	—	Ground
72 to 75	D15/GP7 to D12/GP4	I/O	SRAM data bus
76	VDDE	—	Power supply (+3.3V)
77 to 80	D11/GP3 to D8/GP8	I/O	SRAM data bus
81	VSS	—	Ground
82 to 85	A9 to A10	O	Address bus output to the SRAM
86	TDO	O	Not used (open)
87	TMS	I	Not used (open)
88	XTRST	I	Not used (open)
89	TCK	I	Not used (open)
90	TDI	I	Not used (open)
91	VSS	—	Ground
92 to 97	A8 to A3	O	Address bus output to the SRAM
98,99	D7,D6	I/O	SRAM data bus
100	VDDI	—	Power supply (+2.5V)
101	VSS	—	Ground
102 to 105	D5 to D2	I/O	SRAM data bus
106	VDDE	—	Power supply (+3.3V)
107,108	D1,D0	I/O	SRAM data bus
109,110	A2,A1	O	Address bus output to the SRAM
111	VSS	—	Ground
112	A0	O	Address bus output to the SRAM
113	PM	I	PLL initialization input from MB90478
114	SD13	I	Not used (open)
115	SD14	I	Not used (open)
116	SYNC	I	Synchronization / asynchronous selection input (pull up)
117 to 119	VSS	—	Ground
120	VDDI	—	Power supply (+2.5V)

• IC118 MB90478PF-G-149-BND (SYSTEM CONTROL) (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	DATA O	I	Serial data input from LC89056W
2	GP9	I	External memory data input from CXD9617R
3	BST	O	Boot strap signal output to CXD9617R
4	HCS	O	Chip selection signal output to CXD9617R
5	HACN	I	Acknowledge signal input from CXD9617R
6	XRST	O	Reset signal output to CXD9617R
7	PM	O	PLL initialization signal output to CXD9617R
8	VCONT	O	Power voltage control
9	PD	O	PD signal output to AK4527B
10	PWCONT2	O	IC903, 907 On/Off control
11	VSS	—	Ground
12	PWCONT1	O	Power control
13	NC	—	Not used (Pull down)
14	DATA	O	Serial control data output to the tuner and M61527FP
15	CLK	O	Serial control clock output to the tuner and M61527FP
16	WOOFER RELAY	O	Sub woofer relay control signal output
17	HEADPONE RELAY	O	Headphone relay control signal output
18	HDOUT	I	Serial data input from CXD9617R
19	HDIN	O	Serial data output to CXD9617R
20	HCLK	O	Clock signal output to CXD9617R
21	POWER KEY OUT	O	Not used
22	VIDEO-SWA	O	Video switch signal output to the NJM2279
23	VCC5	—	Power supply (+3.3V (STBY))
24	VIDEO SW C	O	Video switch signal output to the NJM2279
25	HP DETECT	I	Detects headphone switch On/Off
26	VIDEO SWB	O	Video switch signal output to NJM2279
27	FLASH2	I	Flash programming input
28	NC	—	Not used (pull down)
29	NC	—	Not used (pull down)
30	NC	I	Not used (pull down)
31	NC	I	Not used (pull down)
32	NC	I	Not used (pull down)
33	SCL	O	SCL signal output to the EEPROM
34	SDA	I/O	SDA signal from the EEPROM
35	AVCC	—	Power supply (+3.3V(STBY))
36	AVRH	I	A Vref input (connected to +3.3 (STBY))
37	AVSS	—	Ground
38	A/D0	I	Not used (pull down)
39	A/D1	I	Key signal input
40	FM SIG OUT	O	FM antenna input level
41	A/D3	I	Key signal input
42	VSS	—	Ground
43	NC	—	Not used (pull down)
44	MODEL	I	Model detection input
45	VERSION	I	Version resisrtor input
46	NC	I	Not used (pull down)
47	CRYSTAL SEL	I	Not used (pull down)
48	STOP	I	AC off signal input
49	MD0	I	Flash programming MD0 input
50	MD1	I	Not used (connected to +3.3V(STBY))

Pin No.	Pin Name	I/O	Description
51	MD2	I	Flash programming MD2 input
52	RDS INT	I	RDS clock input to tuner
53	RDS DATA	I	RDS data input to tuner
54	SIRCS	I	Data input from the remote control receiver
55	DIAG	I	Protect
56	POWER KEY	I	Power swich detection signal input
57	NOT IN USE	I	Not used (pull down)
58	NOT IN USE	I	Not used (pull down)
59	SCDT	O	IC405, 408, 411 control
60	SHIFT	O	IC405, 408, 411 control
61	DIN	O	Serial data output to μPD16315
62	CLK	O	Clock signal output to μPD16315
63	FL_STB	O	STB signal output to μPD16315
64	FAN_ON	I	Fan motor on detection signal input
65	FAN_CLK	I	Feedback signal input from fan motor
66	VOL(B)	I	Volume signal input from the rotary encoder
67	VOL(A)	I	Volume signal input from the rotary encoder
68	TC74153H B	O	IC105 control (Digital input select switch)
69	TC74153H A	O	IC105 control (Digital input select switch)
70	NJU4066	O	IC106 control (Analog input select switch)
71	TC4052A	O	IC108 control (Analog input select switch)
72	TC4052B	O	IC108 control (Analog input select switch)
73	TUNED	I	Tuning a frequency detection signal input from the tuner
74	STEREO	I	STEREO tuning signal from the tuner
75	MUTE	O	Muting control signal output from the tuner
76	DO	I	Data input from the tuner
77	RSTX	I	System reset input
78	SLATCH	O	Serial control latch signal output to the tuner
79	X1A	—	Not used (open)
80	X0A	—	Not used (connected to ground)
81	VSS	—	Ground
82	XO	O	Clock output (16MHz)
83	XI	I	Clock input (16MHz)
84	VCC3	—	Power supply (+3.3V (STBY))
85	RST	O	Resets IC405, 408, 411
86	NSMUTE	O	IC405, 408, 411 NS mute
87	NC	I	Not used (pull down)
88	NC	I	Not used (pull down)
89	LAT3	O	Latches IC411
90	LAT2	O	Latches IC408
91	LAT1	O	Latches IC405
92	EN	O	Controls IC404, 406, 407, 410, 412
93	XMODE	O	Reset signal output to LC89056W
94	CKSEL1	O	Selects IC111 output clock
95	CLK	O	Clock signal output to LC89056W
96	CE	O	Chip enable signal output to LC89056W
97	DI	O	Write data output to LC89056W
98	DO	I	Read data input from LC89056W
99	ERROR	I	PLL lock error, data error flag input from LC89056W
100	XSTATE	I	Source clock selection monitor input from LC89056W

• **Circuit Boards Location**



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in μF unless otherwise noted. p : pF. 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

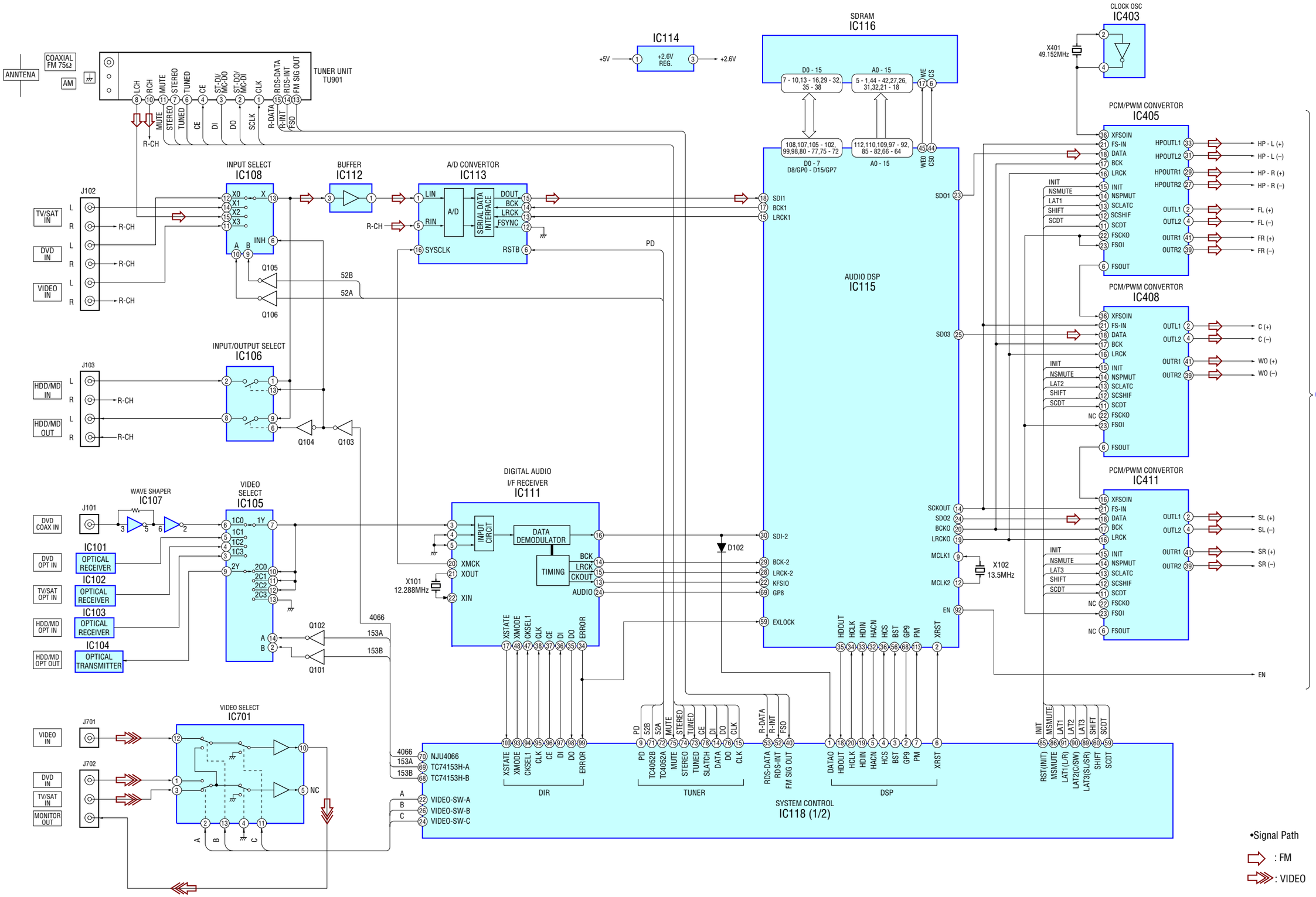
- : B+ Line.
- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : ANALOG
  : DIGITAL
  : DVD

For printed wiring boards.
Note:

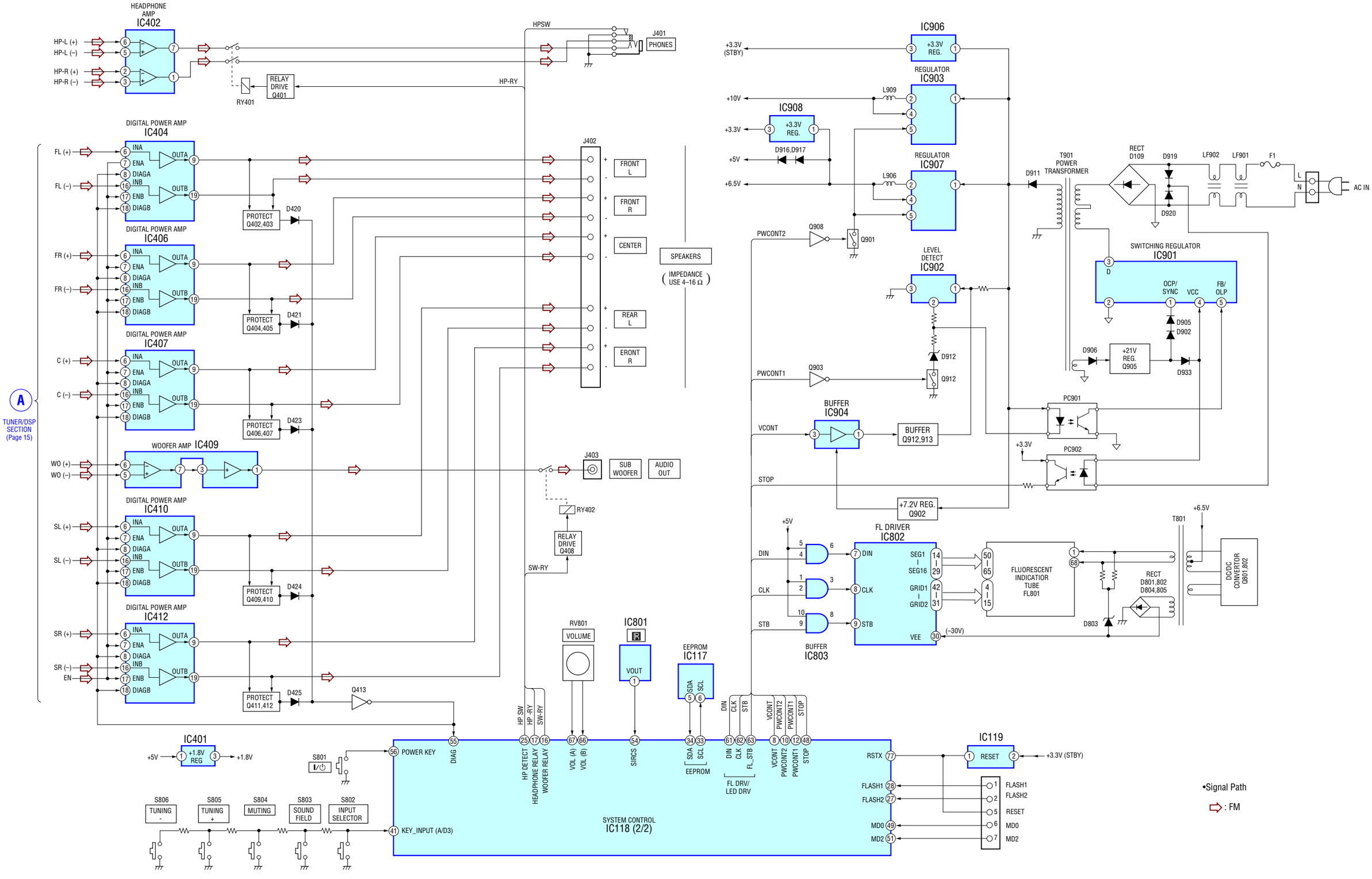
- : parts extracted from the component side.
- ○ : Through hole.
- : Pattern from the side which enables seeing.

Caution:
Pattern face side: (Side A) — Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side B) — Parts on the parts face side seen from the parts face are indicated.

4-2. BLOCK DIAGRAM – TUNER/DSP SECTION –



– DISPLAY/POWER SECTION–

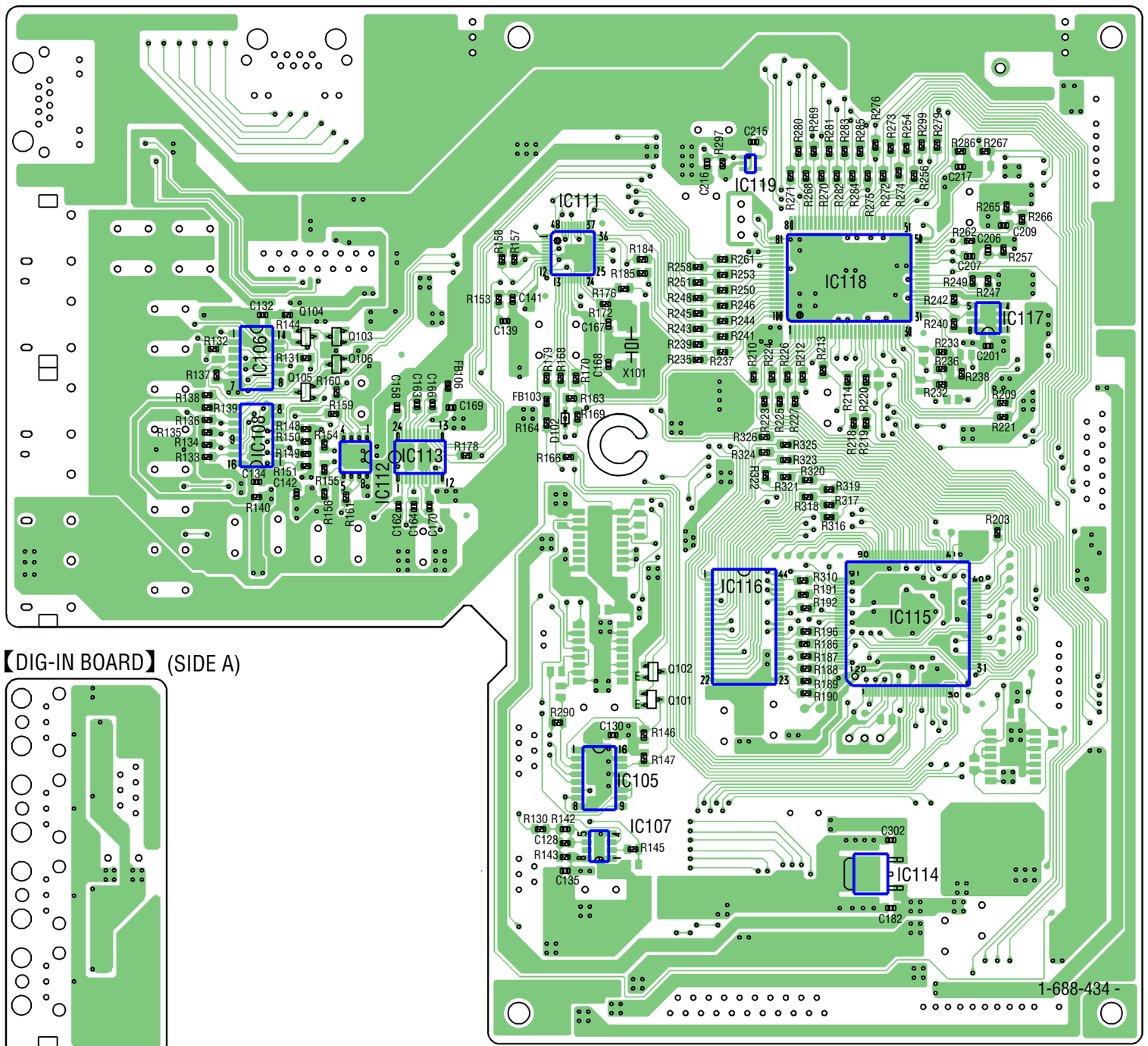


4-3. PRINTED WIRING BOARD – DIGITAL SECTION (SIDE A) –

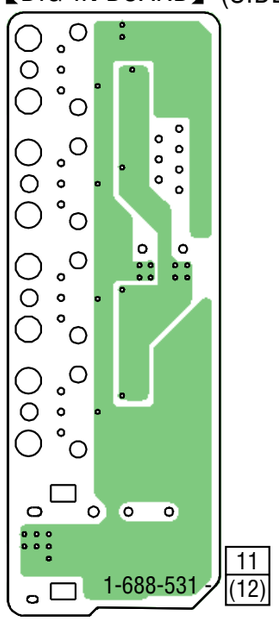
• See page 13 for Circuit Boards Location.

: Uses unleaded solder.

【DIGITAL BOARD】 (SIDE A)



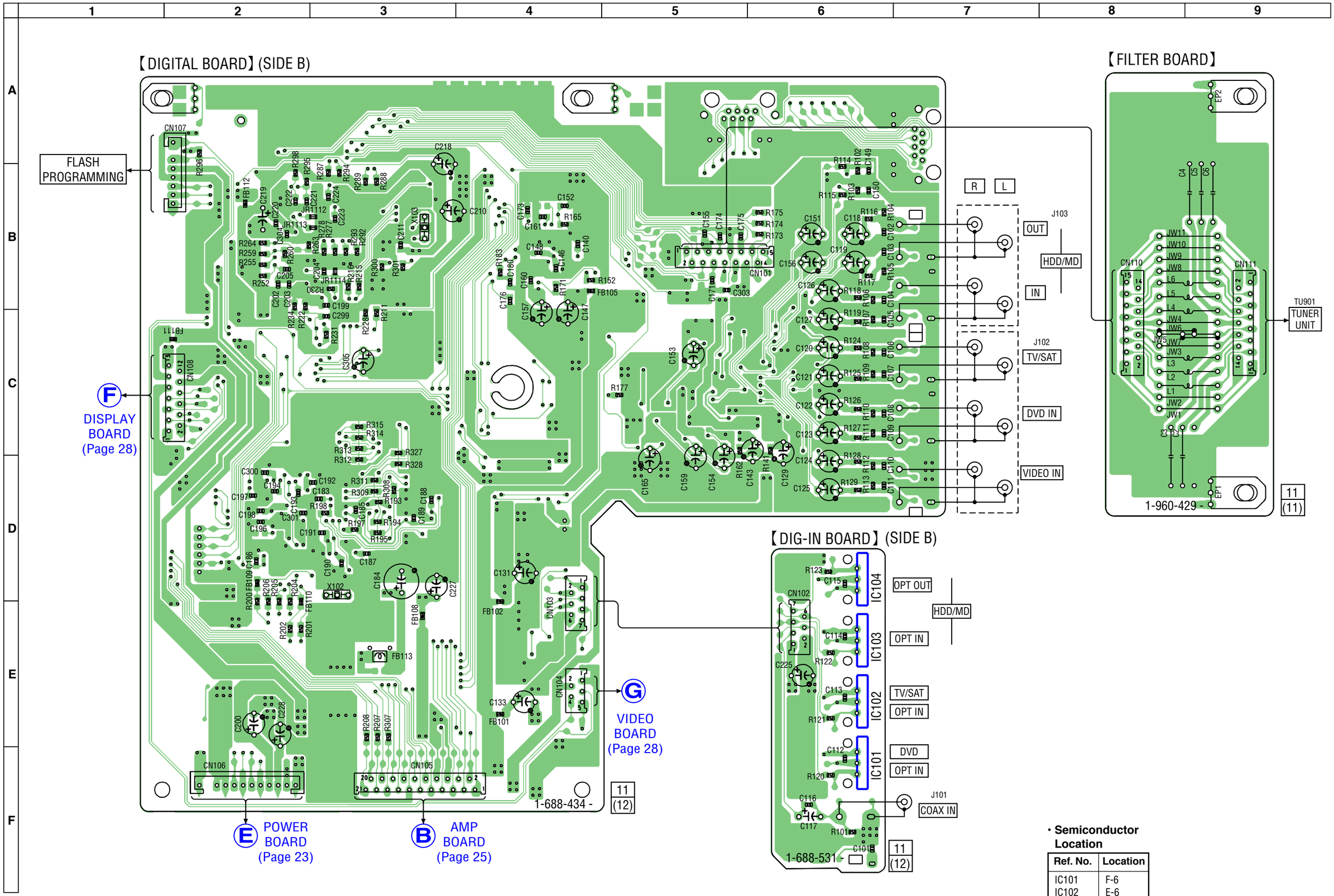
【DIG-IN BOARD】 (SIDE A)



• **Semiconductor Location**

Ref. No.	Location
D102	C-3
IC105	E-4
IC106	C-2
IC107	E-4
IC108	C-2
IC111	B-3
IC112	C-3
IC113	C-3
IC114	E-5
IC115	D-5
IC116	D-4
IC117	B-6
IC118	B-5
IC119	B-4
Q101	D-4
Q102	D-4
Q103	B-2
Q104	B-2
Q105	C-2
Q106	C-2

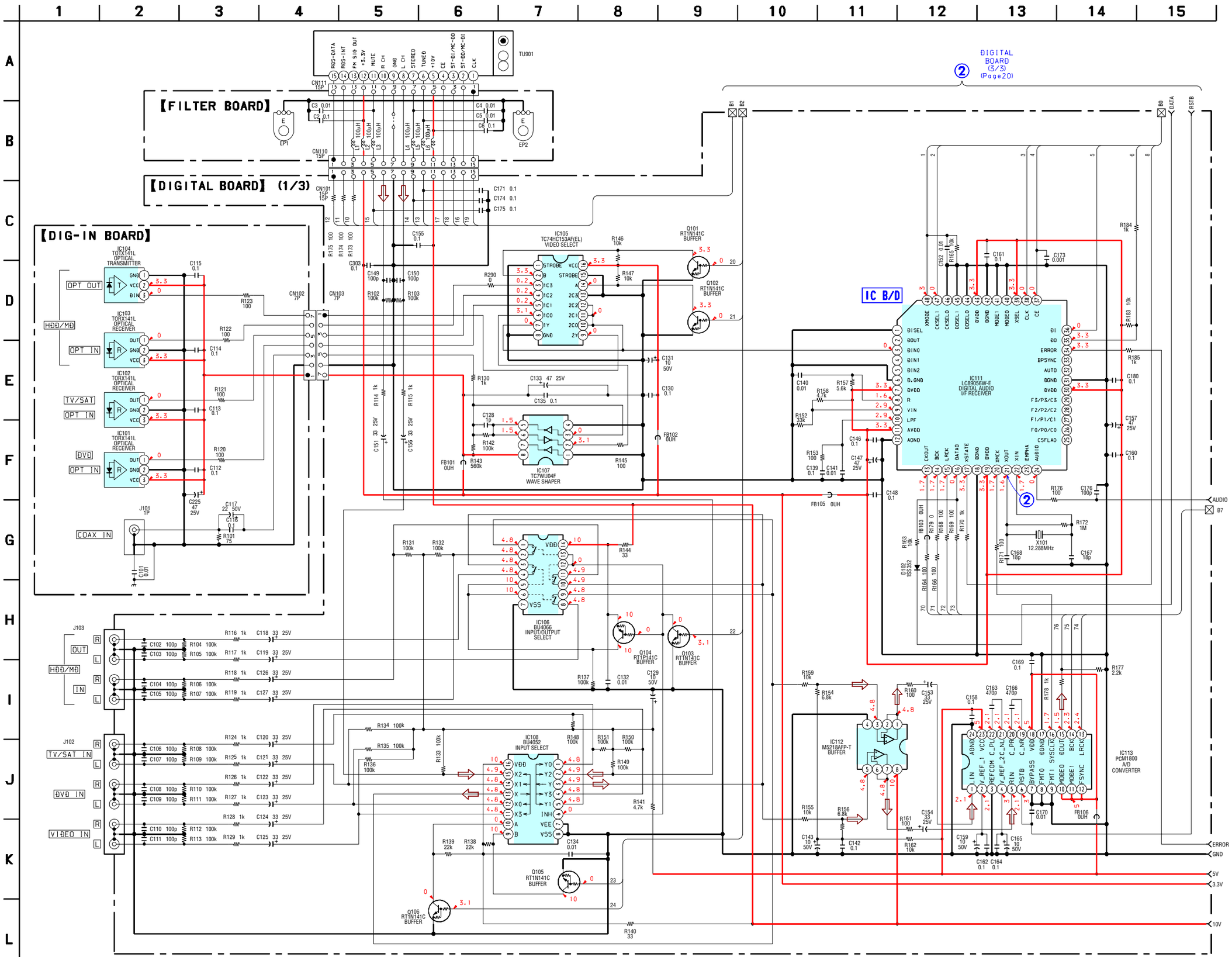
PRINTED WIRING BOARDS – DIGITAL SECTION (SIDE B) – ・Refer to page 13 for Circuit Boards Location. **: Uses unleaded solder.**



・**Semiconductor Location**

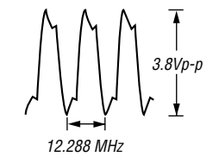
Ref. No.	Location
IC101	F-6
IC102	E-6
IC103	E-6
IC104	D-6

4-4. SCHEMATIC DIAGRAM – DIGITAL SECTION (1/3) –

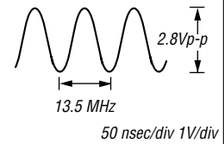


• Waveforms – DIGITAL Board –

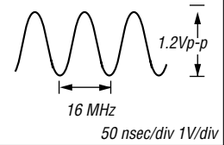
② IC111 ㉑ (XOUT)



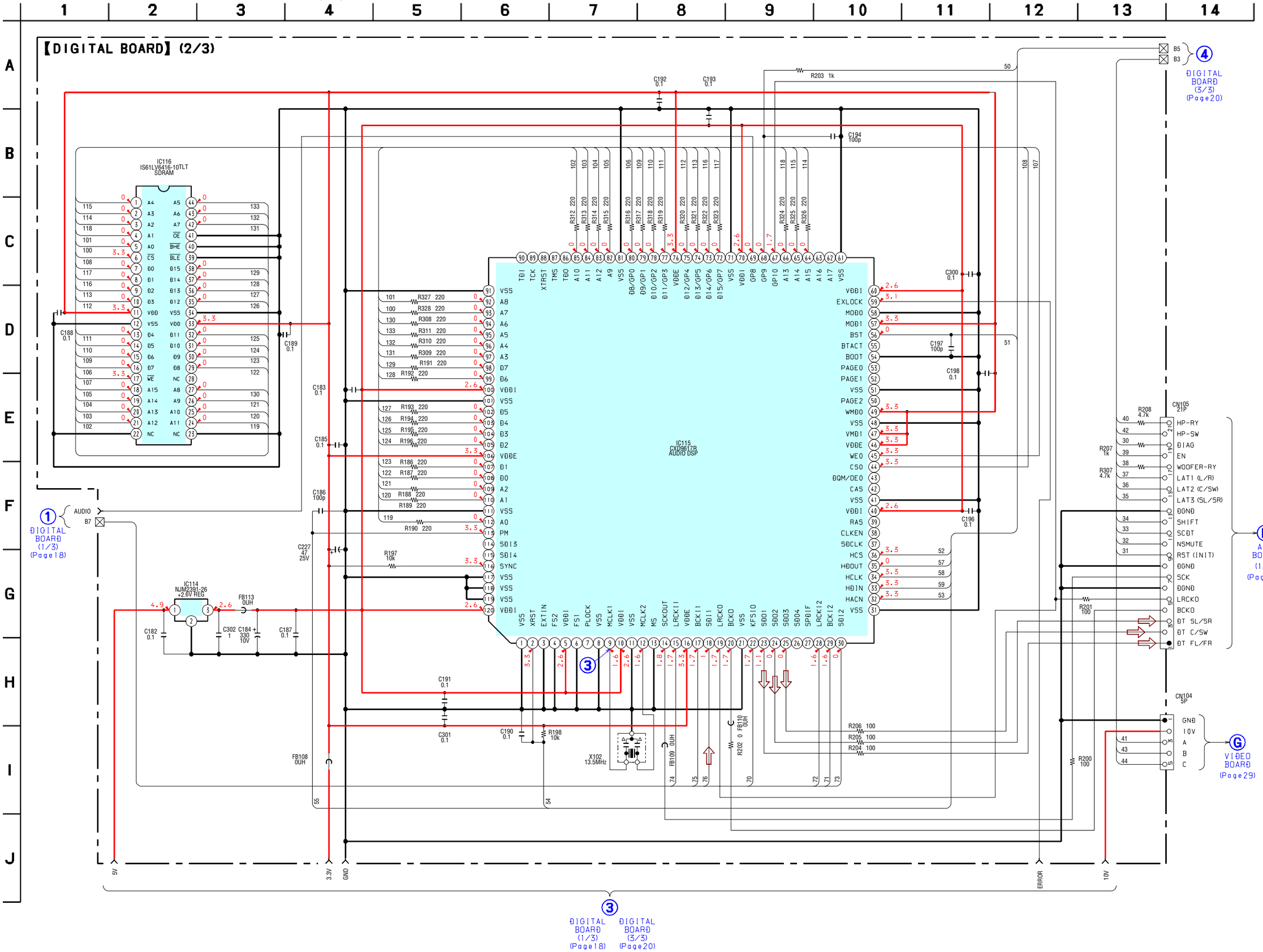
③ IC115 ⑨ (MCLK1)



④ IC118 ㉜ (XO)

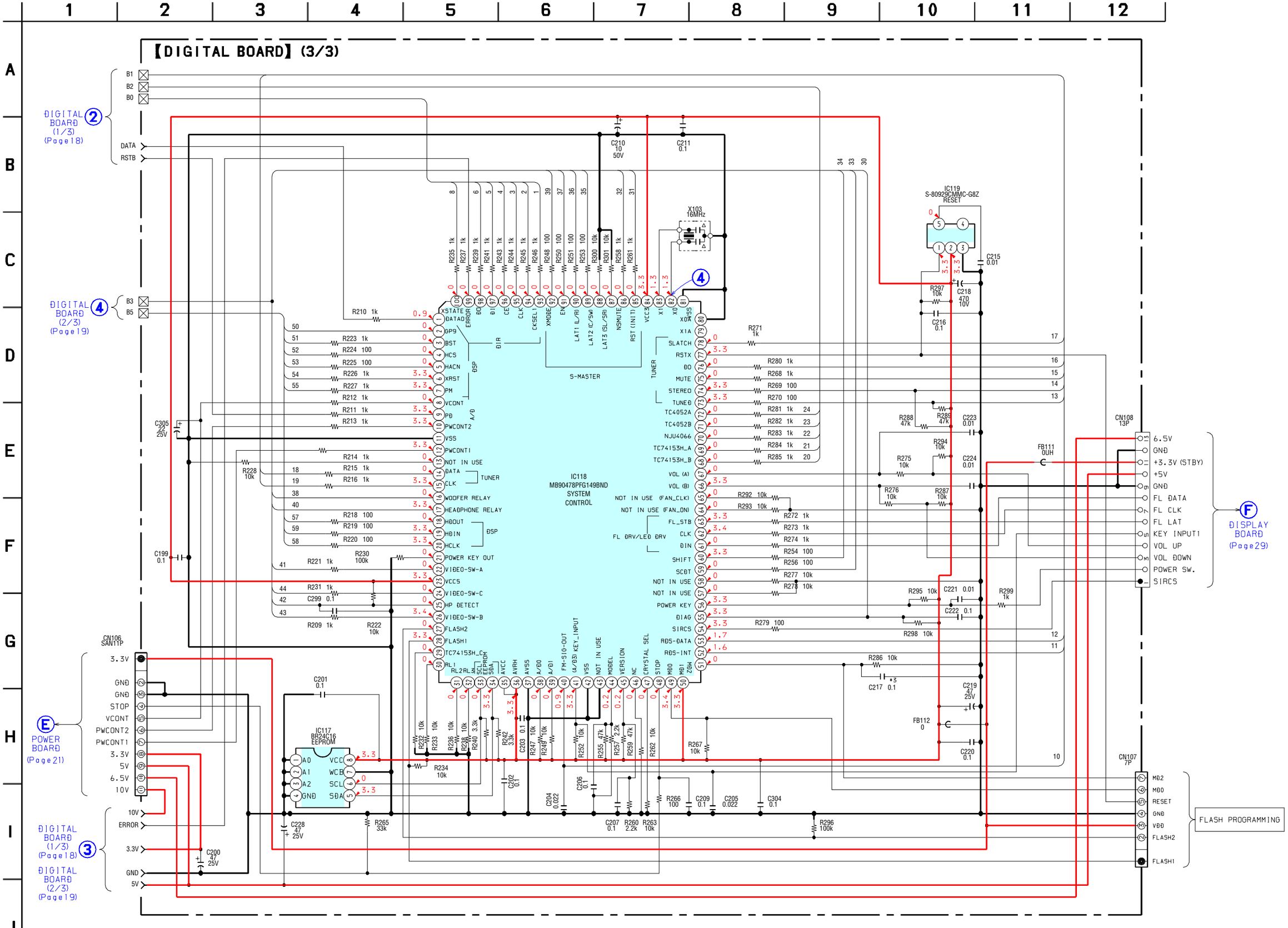


4-5. SCHEMATIC DIAGRAM – DIGITAL SECTION (2/3) –

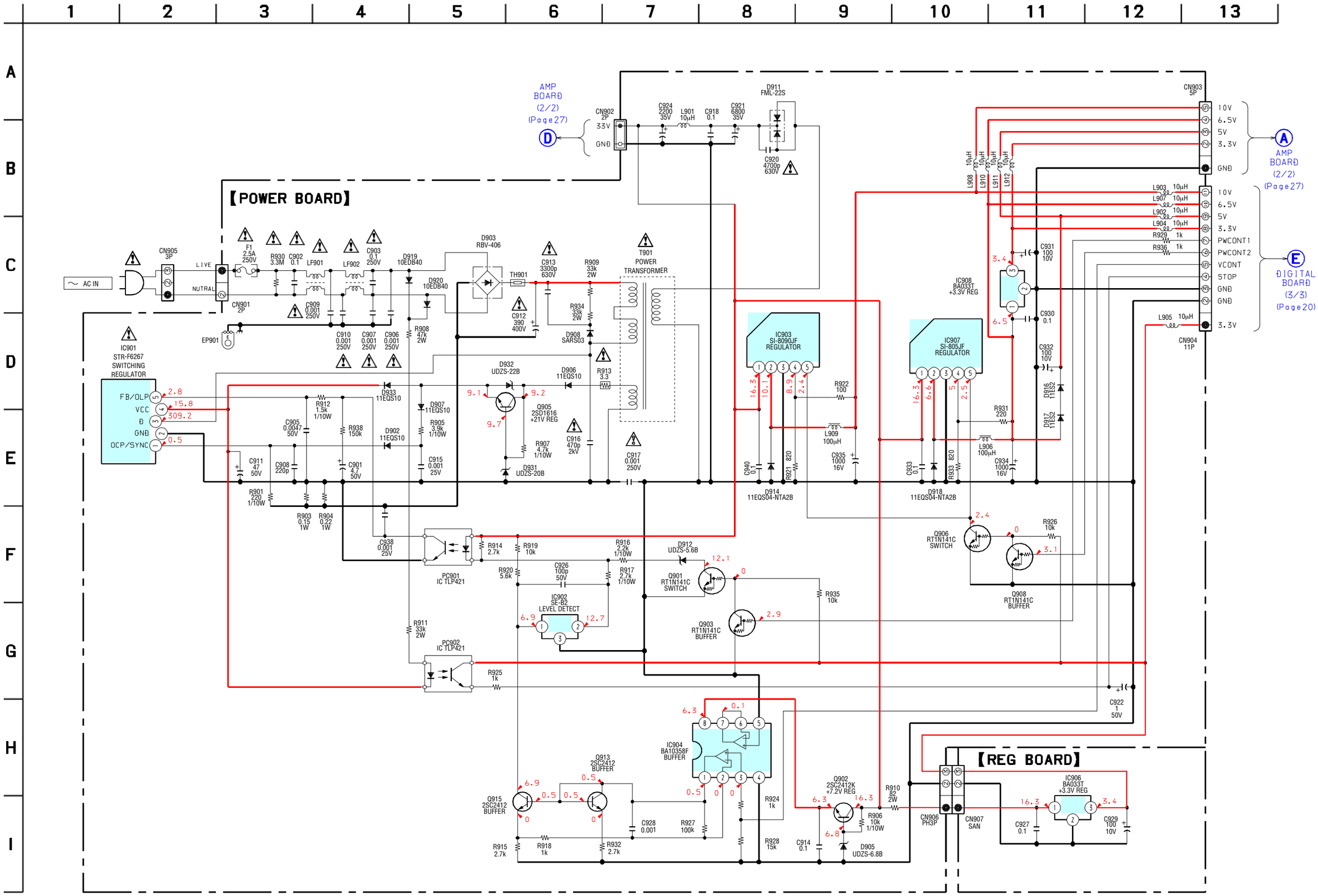


4-6. SCHEMATIC DIAGRAM – DIGITAL SECTION (3/3) –

【DIGITAL BOARD】(3/3)



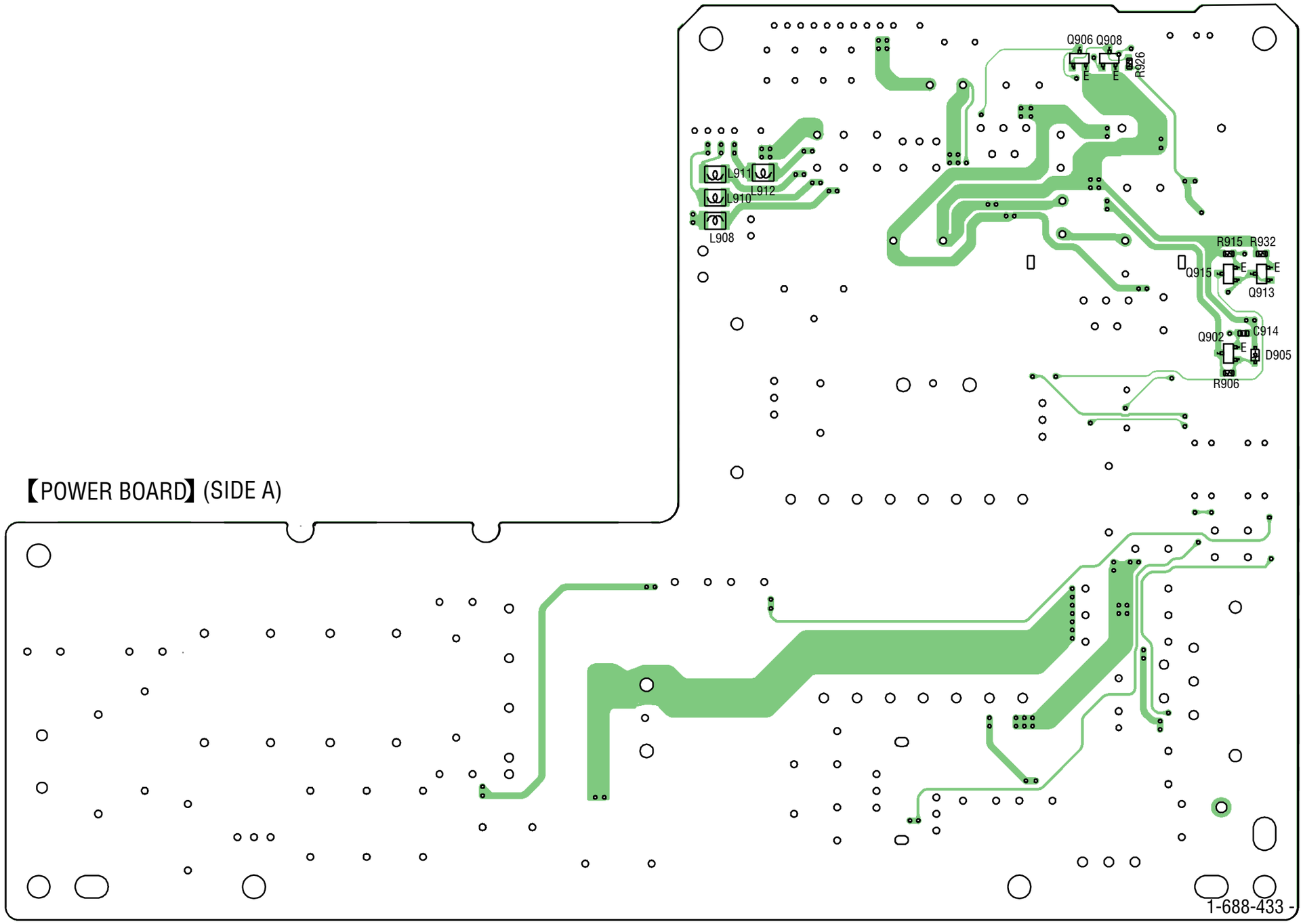
4-7. SCHEMATIC DIAGRAM – POWER SECTION –



4-8. PRINTED WIRING BOARD – POWER SECTION (SIDE A) –

• See page 13 for Circuit Boards Location.

: Uses unleaded solder.

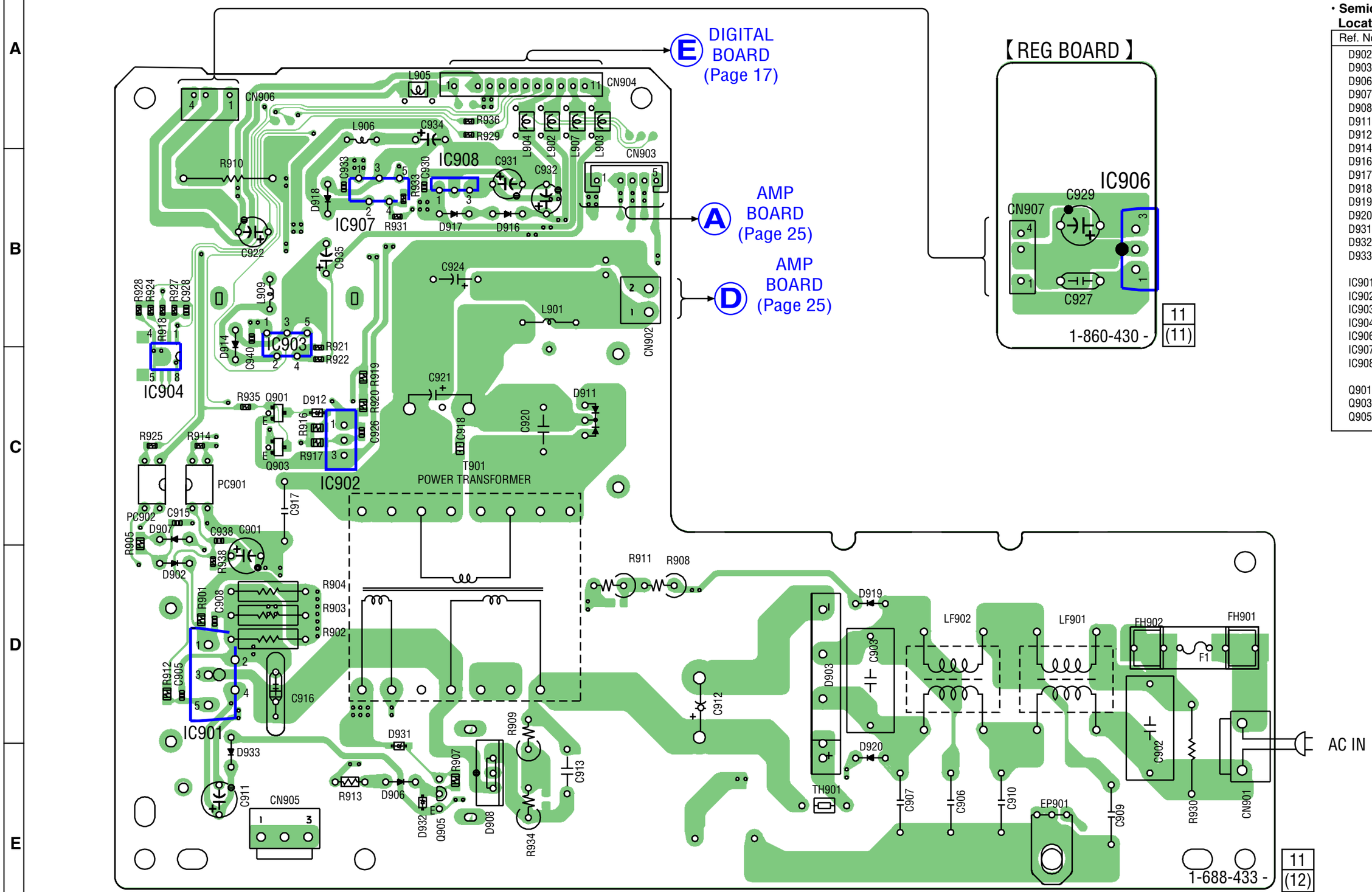


• **Semiconductor Location**

Ref. No.	Location
D905	C-7
Q902	C-7
Q906	A-6
Q908	A-6
Q913	B-7
Q915	B-7

PRINTED WIRING BOARD – POWER SECTION (SIDE B) – • See page 13 for Circuit Boards Location. **: Uses unleaded solder.**

【POWER BOARD】 (SIDE B)



• **Semiconductor Location**

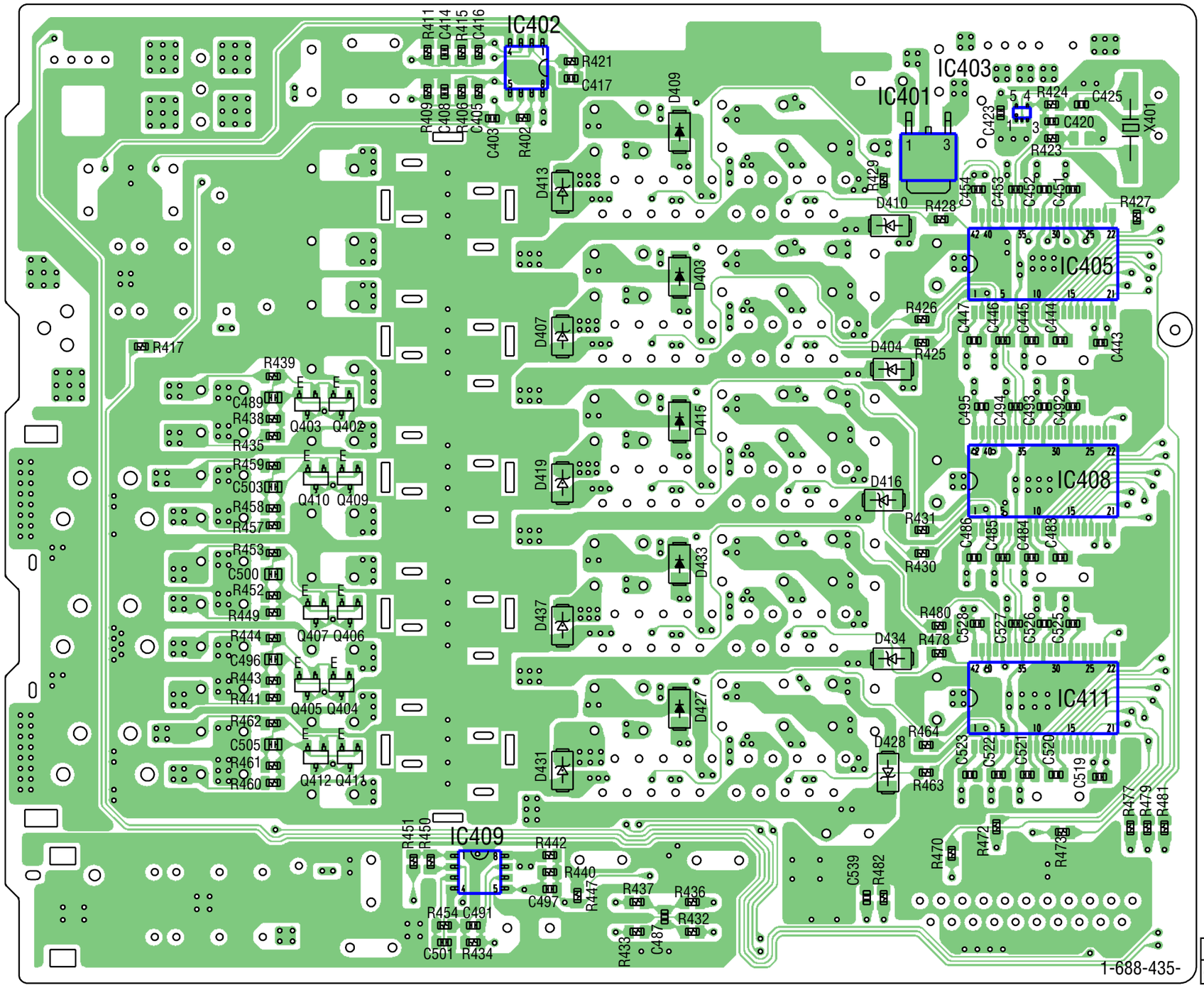
Ref. No.	Location
D902	D-1
D903	D-5
D906	E-2
D907	C-1
D908	E-3
D911	C-3
D912	C-2
D914	B-2
D916	B-3
D917	B-3
D918	B-2
D919	D-5
D920	E-5
D931	E-2
D932	E-3
D933	E-2
IC901	D-1
IC902	C-2
IC903	B-2
IC904	C-1
IC906	B-6
IC907	B-2
IC908	B-3
Q901	C-2
Q903	C-2
Q905	E-3

4-9. PRINTED WIRING BOARD – AMP SECTION (SIDE A) –

• See page 13 for Circuit Boards Location.

: Uses unleaded solder.

【AMP BOARD 】(SIDE A)

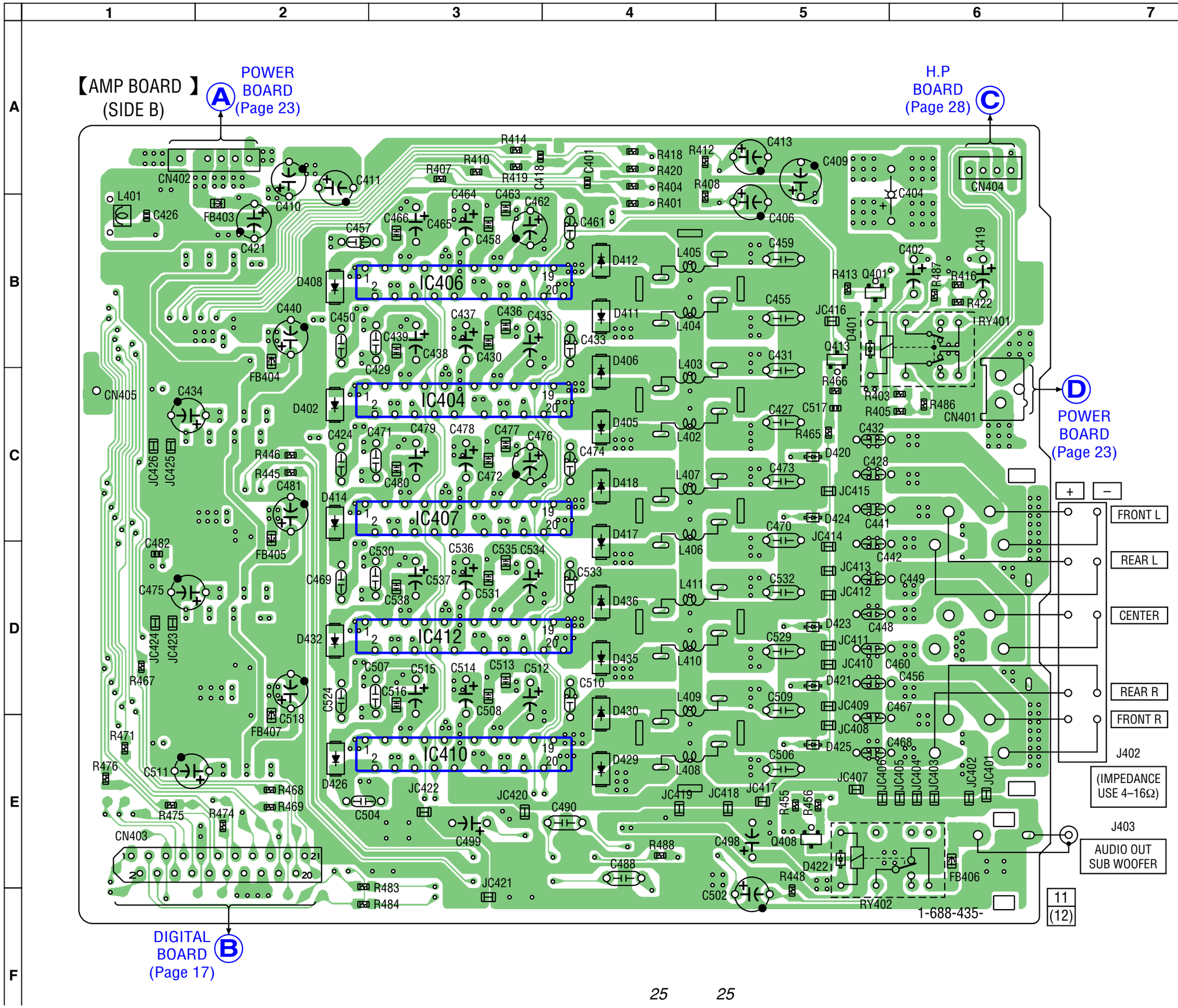


• **Semiconductor Location**

Ref. No.	Location
D403	B-4
D404	B-5
D407	B-3
D409	A-4
D410	B-5
D413	B-3
D415	C-4
D416	C-5
D419	C-3
D427	D-4
D428	D-5
D431	D-3
D433	C-4
D434	D-5
D437	D-3
IC401	A-5
IC402	A-3
IC403	A-5
IC405	B-6
IC408	C-6
IC409	E-3
IC411	D-6
Q402	C-2
Q403	C-2
Q404	D-2
Q405	D-2
Q406	D-2
Q407	D-2
Q409	C-2
Q410	C-2
Q411	D-2
Q412	D-2

PRINTED WIRING BOARD – AMP SECTION (SIDE B) – • See page 13 for Circuit Boards Location.

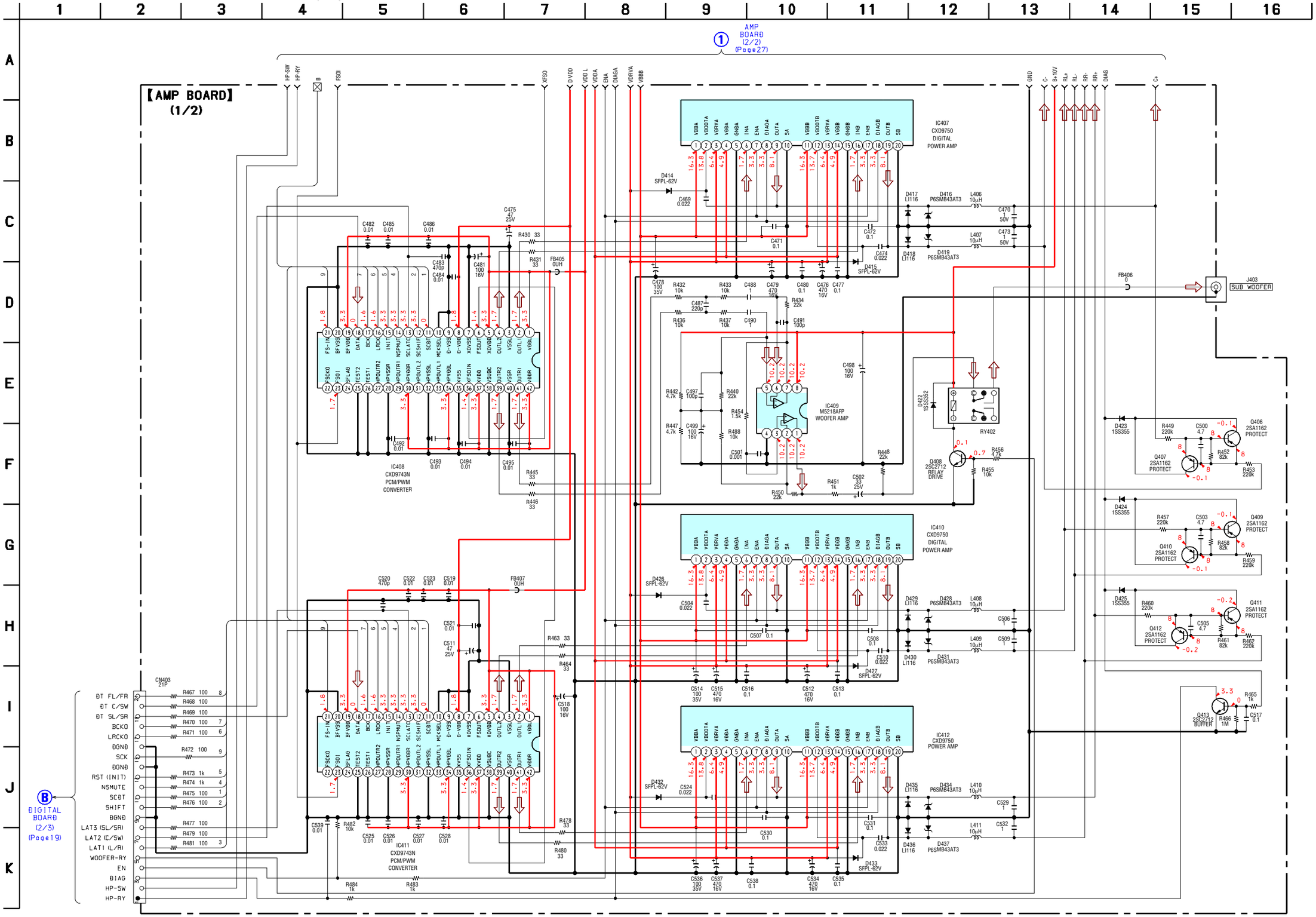
: Uses unleaded solder.



• **Semiconductor Location**

Ref. No.	Location
D401	B-5
D402	C-2
D405	C-4
D406	B-4
D408	B-2
D411	B-4
D412	B-4
D414	C-2
D417	C-4
D418	C-4
D420	C-5
D421	D-5
D422	E-5
D423	D-5
D424	C-5
D425	E-5
D426	E-2
D429	E-4
D430	D-4
D432	D-2
D435	D-4
D436	D-4
IC404	C-3
IC406	B-3
IC407	C-3
IC410	E-3
IC412	D-3
Q401	B-5
Q408	E-5
Q413	B-5

4-10. SCHEMATIC DIAGRAM – AMP SECTION (1/2) –



4-11. SCHEMATIC DIAGRAM – AMP SECTION (2/2) –

【AMP BOARD】(2/2)

CN402 SAN5P

Ⓐ POWER BOARD (Page21)

Ⓓ POWER BOARD (Page21)

CN401 SDN2P

IC403 MC74VHC1GU04DF CLOCK OSC

X401 49.152MHz

IC404 CXD9750 DIGITAL POWER AMP

IC402 M5218AFP-T HEADPHONE AMP

IC405 CXD9743N PCM/PWM CONVERTER

IC401 BA18BC0FP +1.8V REG

RY401

CN404 4P

L+ GNĐ R+ HPSW

Ⓒ HP BOARĐ (Page29)

J402 SP-J

FRONT-L

REAR-L

CENTER

FRONT-R

REAR-R

Ⓑ FSOI

XFSO D VDD VDD L VDDA ENA DIAGA VDRVA VBBB B+10V HP-RY HP-SW RL+ RL- C+ GND C- RR+ RR- DIAG

Ⓘ AMP BOARĐ (1/2) (Page26)

• Waveforms – AMP Board –

Ⓘ IC403 ② (MCLK1)

0.2Vp-p

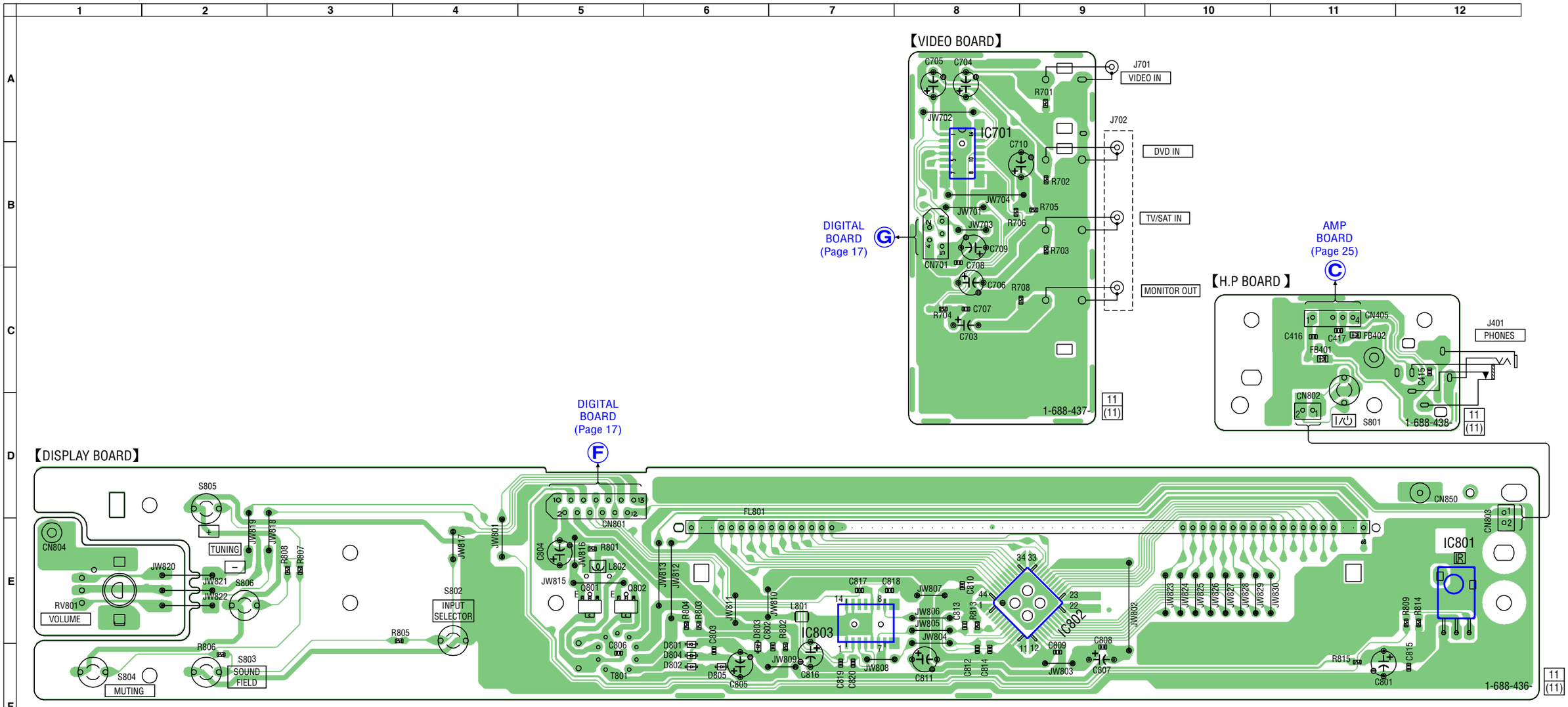
49.152 MHz

20 nsec/div 1V/div

4-12. PRINTED WIRING BOARD – DISPLAY SECTION –

• See page 13 for Circuit Boards Location.

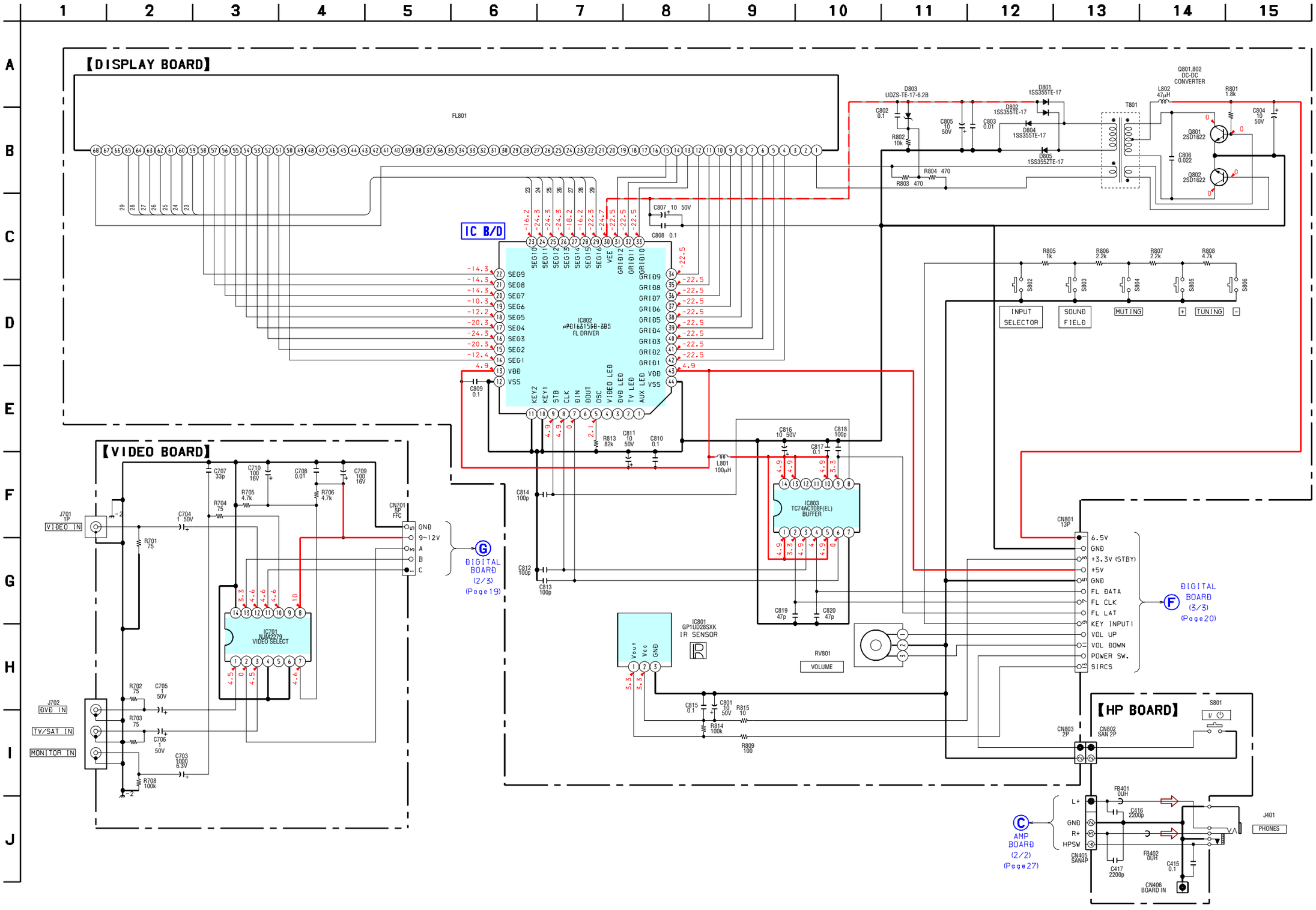
: Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D801	F-6
D802	F-6
D803	F-6
D804	F-6
D805	F-6
IC701	B-8
IC801	E-12
IC802	E-9
IC803	E-7
Q801	E-5
Q802	E-5

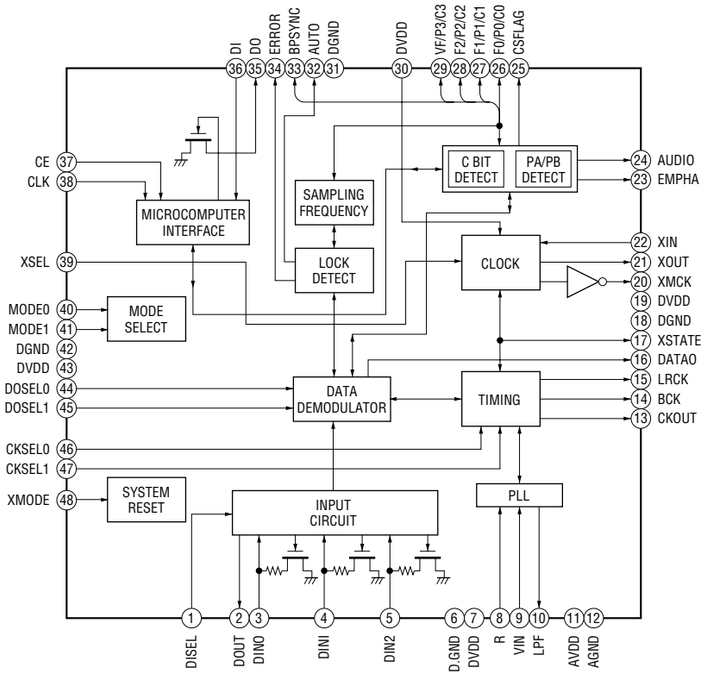
4-13. SCHEMATIC DIAGRAM – DISPLAY SECTION –



4-14. IC Block Diagram

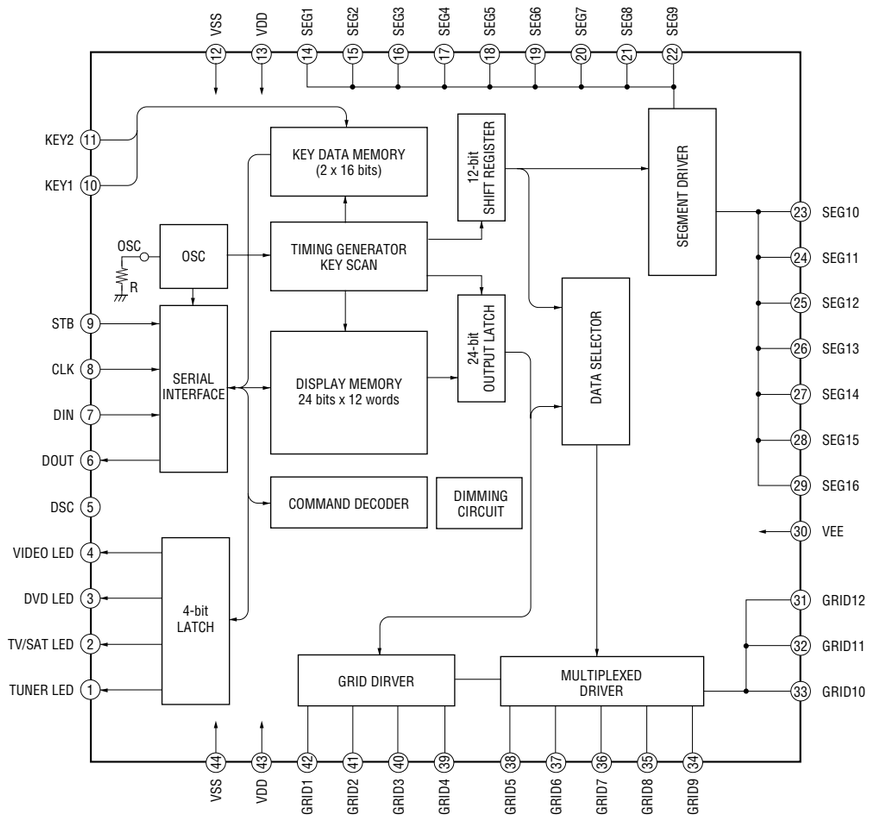
– DIGITAL Board –

IC111 LC89056W-E



– DISPLAY Board –

IC802 μPD16315GB-3BS



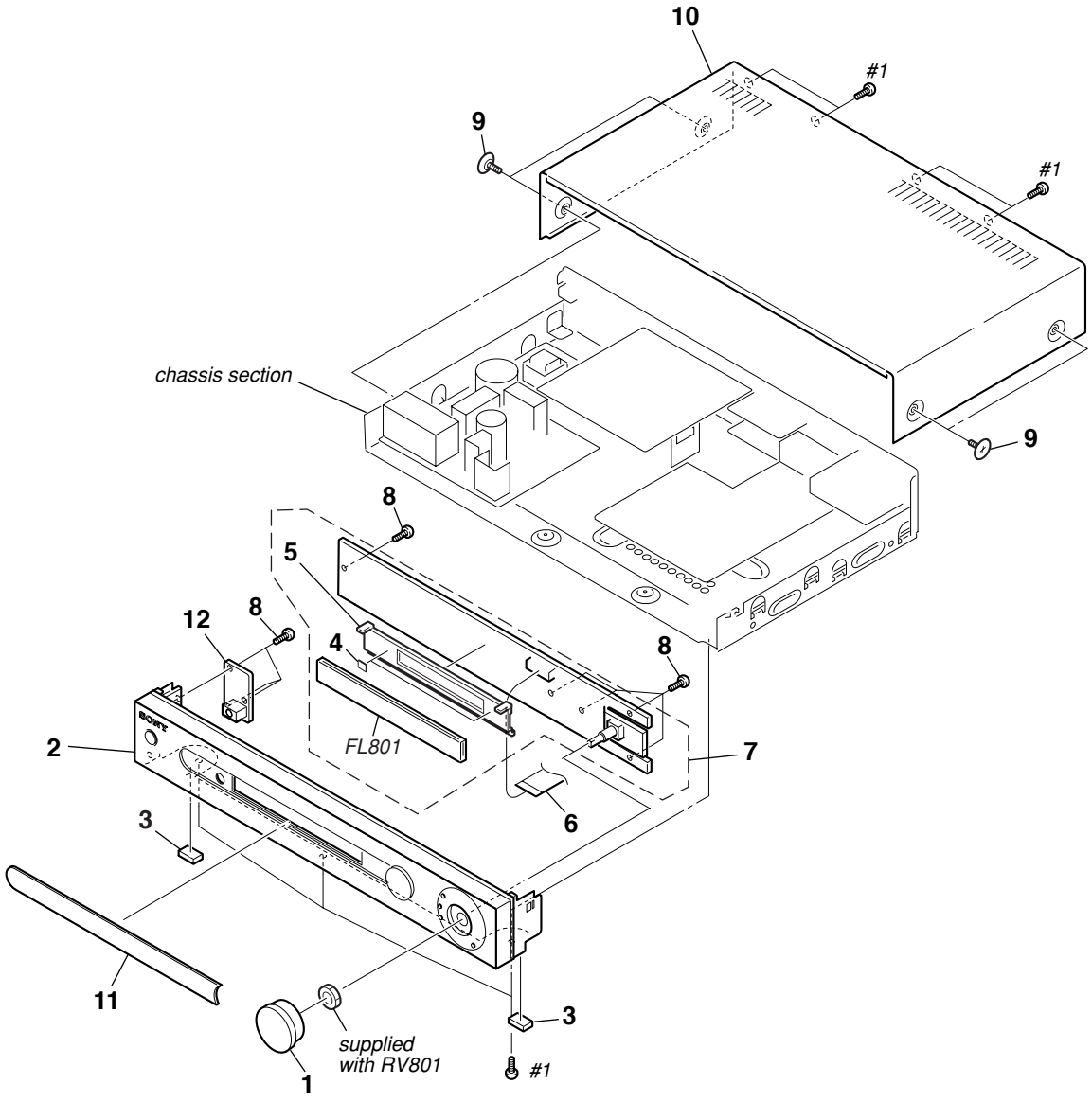
SECTION 5
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

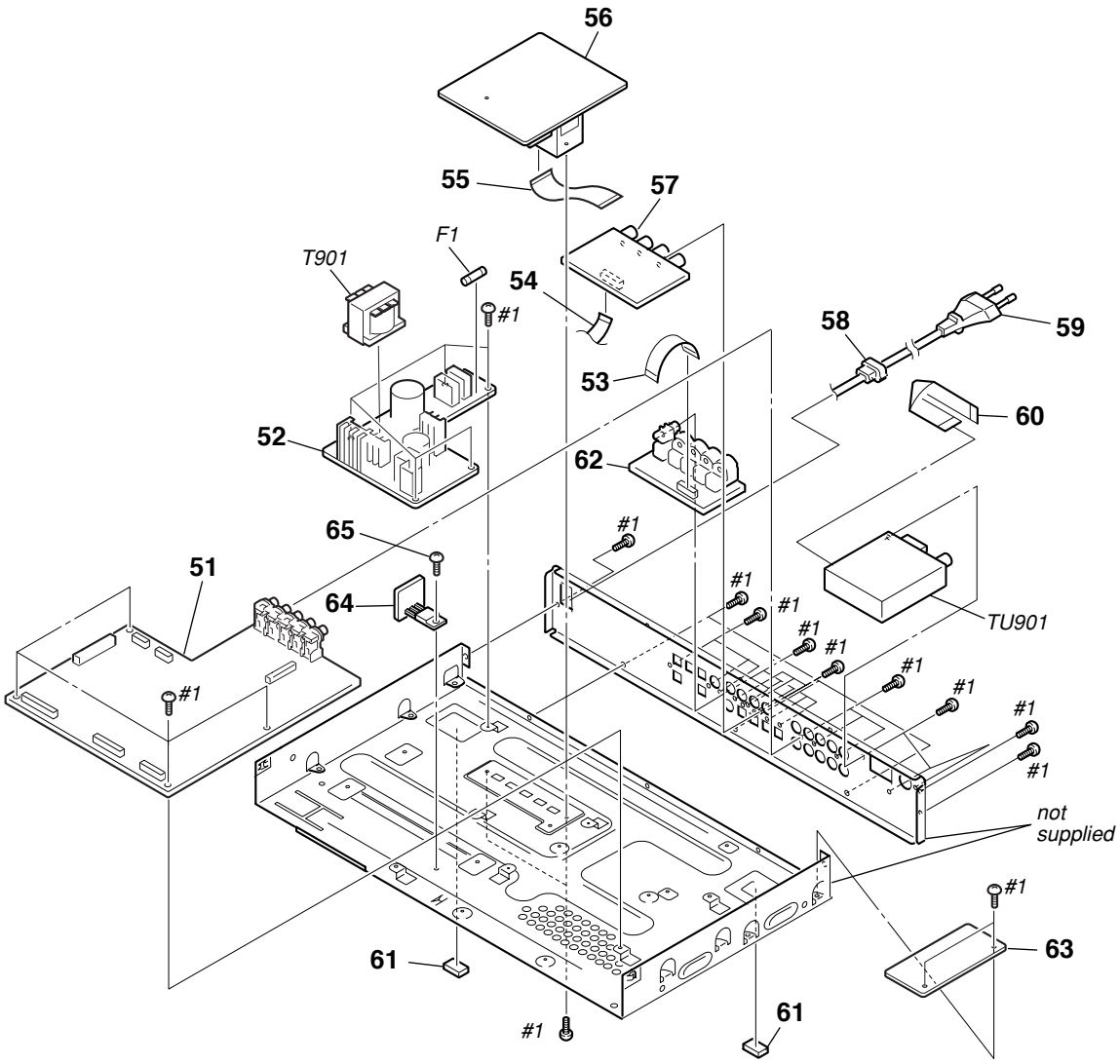
5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4955-665-1	KNOB (VOL) ASSY	
2	X-4955-663-1	PANEL ASSY, FRONT	
3	4-977-358-01	CUSHION	
4	4-921-941-11	CUSHON (FL)	
5	4-246-462-01	HOLDER (FL)	
6	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
7	A-4733-964-A	DISPLAY BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
8	4-951-620-01	SCREW (2.6X8), +BVTP	
9	3-070-883-11	SCREW, TAPPING	
10	4-247-114-31	CASE	
11	4-247-146-01	WINDOW (FL)	
12	A-4733-956-A	H.P BOARD, COMPLETE	
FL801	1-518-903-11	INDICATOR TUBE, FLUORESCENT	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

5-2. CABINET SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
51	A-4733-957-A	DIGTAL BOARD, COMPLETE	
52	A-4733-960-A	POWER BOARD, COMPLETE	
53	1-769-878-11	WIRE (FLAT TYPE) (7 CORE)	
54	1-769-841-11	WIRE (FLAT TYPE) (5 CORE)	
55	1-773-141-11	WIRE (FLAT TYPE) (21 CORE)	
56	A-4733-963-A	AMP BOARD, COMPLETE	
57	A-4733-953-A	VIDEO BOARD, COMPLETE	
58	4-966-267-04	BUSHING (FBS001), CORD	
⚠59	1-777-071-23	CORD, POWER	
60	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)	

Ref. No.	Part No.	Description	Remark
61	4-977-358-01	CUSHION	
62	A-4733-949-A	DIG-IN BOARD, COMPLETE	
63	1-860-429-11	FILTER BOARD	
64	1-860-430-11	REG BOARD	
65	3-970-608-11	SUMITITE (B3), +BV	
⚠F1	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V)	
⚠T901	1-437-866-11	TRANSFORMER, POWER	
TU901	1-693-578-21	TUNER	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

SECTION 5
ELECTRICAL PARTS LIST

AMP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: μF
- COILS
  uH: μH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA... , uPA... , μPA... ,
  uPB... , μPB... , uPC... , μPC... ,
  uPD..., μPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
	A-4733-963-A	AMP BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C401	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C402	1-119-799-11	ELECT	47uF	20%	25V
C403	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C404	1-127-732-51	ELECT	2200uF	20%	35V
C405	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C406	1-127-718-91	ELECT	100uF	20%	16V
C408	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C409	1-127-718-91	ELECT	100uF	20%	16V
C410	1-128-834-11	ELECT	470uF	20%	10V
C411	1-127-718-91	ELECT	100uF	20%	16V
C413	1-127-718-91	ELECT	100uF	20%	16V
C414	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C416	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C417	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C418	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C419	1-119-799-11	ELECT	47uF	20%	25V
C420	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C421	1-127-718-91	ELECT	100uF	20%	16V
C423	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C424	1-136-157-00	FILM	0.022uF	5%	50V
C425	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C426	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C427	1-131-704-11	FILM	1uF	5%	50V
C428	1-136-165-00	FILM	0.1uF	5%	50V
C429	1-136-165-00	FILM	0.1uF	5%	50V
C430	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C431	1-131-704-11	FILM	1uF	5%	50V
C432	1-136-165-00	FILM	0.1uF	5%	50V
C433	1-136-157-00	FILM	0.022uF	5%	50V
C434	1-119-799-11	ELECT	47uF	20%	25V
C435	1-127-720-91	ELECT	470uF	20%	16V
C436	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C437	1-128-851-91	ELECT	100uF	20%	35V
C438	1-127-720-91	ELECT	470uF	20%	16V
C439	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C440	1-127-718-91	ELECT	100uF	20%	16V
C441	1-136-165-00	FILM	0.1uF	5%	50V
C442	1-136-165-00	FILM	0.1uF	5%	50V
C443	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C444	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C445	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C446	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C447	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C448	1-136-165-00	FILM	0.1uF	5%	50V
C449	1-136-165-00	FILM	0.1uF	5%	50V
C450	1-136-157-00	FILM	0.022uF	5%	50V
C451	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C452	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C453	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C454	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C455	1-131-704-11	FILM	1uF	5%	50V
C456	1-136-165-00	FILM	0.1uF	5%	50V
C457	1-136-165-00	FILM	0.1uF	5%	50V
C458	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C459	1-131-704-11	FILM	1uF	5%	50V
C460	1-136-165-00	FILM	0.1uF	5%	50V
C461	1-136-157-00	FILM	0.022uF	5%	50V
C462	1-127-720-91	ELECT	470uF	20%	16V
C463	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C464	1-128-851-91	ELECT	100uF	20%	35V
C465	1-127-720-91	ELECT	470uF	20%	16V
C466	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C467	1-136-165-00	FILM	0.1uF	5%	50V
C468	1-136-165-00	FILM	0.1uF	5%	50V
C469	1-136-157-00	FILM	0.022uF	5%	50V
C470	1-131-704-11	FILM	1uF	5%	50V
C471	1-136-165-00	FILM	0.1uF	5%	50V
C472	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C473	1-131-704-11	FILM	1uF	5%	50V
C474	1-136-157-00	FILM	0.022uF	5%	50V
C475	1-119-799-11	ELECT	47uF	20%	25V
C476	1-127-720-91	ELECT	470uF	20%	16V
C477	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C478	1-128-851-91	ELECT	100uF	20%	35V
C479	1-127-720-91	ELECT	470uF	20%	16V
C480	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C481	1-127-718-91	ELECT	100uF	20%	16V
C482	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C483	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C484	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C485	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C486	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C487	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C488	1-131-704-11	FILM	1uF	5%	50V
C489	1-117-720-11	CERAMIC CHIP	4.7uF		10V

AMP

Ref. No.	Part No.	Description			Remark
C490	1-131-704-11	FILM	1uF	5%	50V
C491	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C492	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C493	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C494	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C495	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C496	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C497	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C498	1-127-718-91	ELECT	100uF	20%	16V
C499	1-127-718-91	ELECT	100uF	20%	16V
C500	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C501	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C502	1-128-844-11	ELECT	33uF	20%	25V
C503	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C504	1-136-157-00	FILM	0.022uF	5%	50V
C505	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C506	1-131-704-11	FILM	1uF	5%	50V
C507	1-136-165-00	FILM	0.1uF	5%	50V
C508	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C509	1-131-704-11	FILM	1uF	5%	50V
C510	1-136-157-00	FILM	0.022uF	5%	50V
C511	1-119-799-11	ELECT	47uF	20%	25V
C512	1-127-720-91	ELECT	470uF	20%	16V
C513	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C514	1-128-851-91	ELECT	100uF	20%	35V
C515	1-127-720-91	ELECT	470uF	20%	16V
C516	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C517	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C518	1-127-718-91	ELECT	100uF	20%	16V
C519	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C520	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C521	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C522	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C523	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C524	1-136-157-00	FILM	0.022uF	5%	50V
C525	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C526	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C527	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C528	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C529	1-131-704-11	FILM	1uF	5%	50V
C530	1-136-165-00	FILM	0.1uF	5%	50V
C531	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C532	1-131-704-11	FILM	1uF	5%	50V
C533	1-136-157-00	FILM	0.022uF	5%	50V
C534	1-127-720-91	ELECT	470uF	20%	16V
C535	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C536	1-128-851-91	ELECT	100uF	20%	35V
C537	1-127-720-91	ELECT	470uF	20%	16V
C538	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C539	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN403	1-568-838-11	CONNECTOR, FFC 21P			
* CN404	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
		< DIODE >			
D401	8-719-016-74	DIODE 1SS352			
D402	6-500-248-01	DIODE SFPL-62V			

Ref. No.	Part No.	Description	Remark
D403	6-500-248-01	DIODE SFPL-62V	
D404	6-500-709-01	DIODE P6SMB43AT3	
D405	6-500-131-01	DIODE LI116	
D406	6-500-131-01	DIODE LI116	
D407	6-500-709-01	DIODE P6SMB43AT3	
D408	6-500-248-01	DIODE SFPL-62V	
D409	6-500-248-01	DIODE SFPL-62V	
D410	6-500-709-01	DIODE P6SMB43AT3	
D411	6-500-131-01	DIODE LI116	
D412	6-500-131-01	DIODE LI116	
D413	6-500-709-01	DIODE P6SMB43AT3	
D414	6-500-248-01	DIODE SFPL-62V	
D415	6-500-248-01	DIODE SFPL-62V	
D416	6-500-709-01	DIODE P6SMB43AT3	
D417	6-500-131-01	DIODE LI116	
D418	6-500-131-01	DIODE LI116	
D419	6-500-709-01	DIODE P6SMB43AT3	
D420	8-719-988-61	DIODE 1SS355TE-17	
D421	8-719-988-61	DIODE 1SS355TE-17	
D422	8-719-016-74	DIODE 1SS352	
D423	8-719-988-61	DIODE 1SS355TE-17	
D424	8-719-988-61	DIODE 1SS355TE-17	
D425	8-719-988-61	DIODE 1SS355TE-17	
D426	6-500-248-01	DIODE SFPL-62V	
D427	6-500-248-01	DIODE SFPL-62V	
D428	6-500-709-01	DIODE P6SMB43AT3	
D429	6-500-131-01	DIODE LI116	
D430	6-500-131-01	DIODE LI116	
D431	6-500-709-01	DIODE P6SMB43AT3	
D432	6-500-248-01	DIODE SFPL-62V	
D433	6-500-248-01	DIODE SFPL-62V	
D434	6-500-709-01	DIODE P6SMB43AT3	
D435	6-500-131-01	DIODE LI116	
D436	6-500-131-01	DIODE LI116	
D437	6-500-709-01	DIODE P6SMB43AT3	
		< FERRITE BEAD >	
FB403	1-469-152-11	FERRITE 0uH	
FB404	1-469-152-11	FERRITE 0uH	
FB405	1-469-152-11	FERRITE 0uH	
FB406	1-469-152-11	FERRITE 0uH	
FB407	1-469-152-11	FERRITE 0uH	
		< IC >	
IC401	8-759-832-05	IC BA18BC0FP-E2	
IC402	8-759-636-55	IC M5218AFP-TE1	
IC403	6-701-189-01	IC MC74VHC1GU04DFT1	
IC404	6-703-288-01	IC CXD9750L	
IC405	6-703-287-01	IC CXD9743N	
IC406	6-703-288-01	IC CXD9750L	
IC407	6-703-288-01	IC CXD9750L	
IC408	6-703-287-01	IC CXD9743N	
IC409	8-759-636-55	IC M5218AFP-TE1	
IC410	6-703-288-01	IC CXD9750L	
IC411	6-703-287-01	IC CXD9743N	
IC412	6-703-288-01	IC CXD9750L	

Ref. No.	Part No.	Description			Remark
		< JACK >			
J402	1-780-026-11	TERMINAL BOARD (SPEAKER)			
J403	1-793-446-11	JACK, PIN 1P (AUDIO OUT)			
		< COIL >			
L401	1-410-369-11	INDUCTOR CHIP	1uH		
L402	1-456-380-11	INDUCTOR	10uH		
L403	1-456-380-11	INDUCTOR	10uH		
L404	1-456-380-11	INDUCTOR	10uH		
L405	1-456-380-11	INDUCTOR	10uH		
L406	1-456-380-11	INDUCTOR	10uH		
L407	1-456-380-11	INDUCTOR	10uH		
L408	1-456-380-11	INDUCTOR	10uH		
L409	1-456-380-11	INDUCTOR	10uH		
L410	1-456-380-11	INDUCTOR	10uH		
L411	1-456-380-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q401	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q402	8-729-216-22	TRANSISTOR	2SA1162-G		
Q403	8-729-216-22	TRANSISTOR	2SA1162-G		
Q404	8-729-216-22	TRANSISTOR	2SA1162-G		
Q405	8-729-216-22	TRANSISTOR	2SA1162-G		
Q406	8-729-216-22	TRANSISTOR	2SA1162-G		
Q407	8-729-216-22	TRANSISTOR	2SA1162-G		
Q408	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q409	8-729-216-22	TRANSISTOR	2SA1162-G		
Q410	8-729-216-22	TRANSISTOR	2SA1162-G		
Q411	8-729-216-22	TRANSISTOR	2SA1162-G		
Q412	8-729-216-22	TRANSISTOR	2SA1162-G		
Q413	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
		< RESISTOR >			
R401	1-216-081-00	METAL CHIP	22K	5%	1/10W
R402	1-216-097-11	RES-CHIP	100K	5%	1/10W
R403	1-216-033-00	METAL CHIP	220	5%	1/10W
R404	1-216-081-00	METAL CHIP	22K	5%	1/10W
R405	1-216-077-91	RES-CHIP	15K	5%	1/10W
R406	1-216-097-11	RES-CHIP	100K	5%	1/10W
R407	1-216-081-00	METAL CHIP	22K	5%	1/10W
R408	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R409	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R410	1-216-081-00	METAL CHIP	22K	5%	1/10W
R411	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R412	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R413	1-216-073-91	RES-CHIP	10K	5%	1/10W
R414	1-216-081-00	METAL CHIP	22K	5%	1/10W
R415	1-216-097-11	RES-CHIP	100K	5%	1/10W
R416	1-216-077-91	RES-CHIP	15K	5%	1/10W
R417	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R418	1-216-081-00	METAL CHIP	22K	5%	1/10W
R419	1-216-081-00	METAL CHIP	22K	5%	1/10W
R420	1-216-081-00	METAL CHIP	22K	5%	1/10W
R421	1-216-097-11	RES-CHIP	100K	5%	1/10W
R422	1-216-033-00	METAL CHIP	220	5%	1/10W
R423	1-216-819-11	METAL CHIP	680	5%	1/10W
R424	1-216-857-11	METAL CHIP	1M	5%	1/10W
R425	1-216-803-11	METAL CHIP	33	5%	1/10W
R426	1-216-803-11	METAL CHIP	33	5%	1/10W
R427	1-216-801-11	METAL CHIP	22	5%	1/10W
R428	1-216-803-11	METAL CHIP	33	5%	1/10W
R429	1-216-803-11	METAL CHIP	33	5%	1/10W
R430	1-216-803-11	METAL CHIP	33	5%	1/10W
R431	1-216-803-11	METAL CHIP	33	5%	1/10W
R432	1-216-073-91	RES-CHIP	10K	5%	1/10W
R433	1-216-073-91	RES-CHIP	10K	5%	1/10W
R434	1-216-081-00	METAL CHIP	22K	5%	1/10W
R435	1-216-849-11	METAL CHIP	220K	5%	1/10W
R436	1-216-073-91	RES-CHIP	10K	5%	1/10W
R437	1-216-073-91	RES-CHIP	10K	5%	1/10W
R438	1-216-095-00	METAL CHIP	82K	5%	1/10W
R439	1-216-849-11	METAL CHIP	220K	5%	1/10W
R440	1-216-081-00	METAL CHIP	22K	5%	1/10W
R441	1-216-849-11	METAL CHIP	220K	5%	1/10W
R442	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R443	1-216-095-00	METAL CHIP	82K	5%	1/10W
R444	1-216-849-11	METAL CHIP	220K	5%	1/10W
R445	1-216-803-11	METAL CHIP	33	5%	1/10W
R446	1-216-803-11	METAL CHIP	33	5%	1/10W
R447	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R448	1-216-081-00	METAL CHIP	22K	5%	1/10W
R449	1-216-849-11	METAL CHIP	220K	5%	1/10W
R450	1-216-081-00	METAL CHIP	22K	5%	1/10W
R451	1-216-049-11	RES-CHIP	1K	5%	1/10W
R452	1-216-095-00	METAL CHIP	82K	5%	1/10W
R453	1-216-849-11	METAL CHIP	220K	5%	1/10W
R454	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R455	1-216-073-91	RES-CHIP	10K	5%	1/10W
R456	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R457	1-216-849-11	METAL CHIP	220K	5%	1/10W
R458	1-216-095-00	METAL CHIP	82K	5%	1/10W
R459	1-216-849-11	METAL CHIP	220K	5%	1/10W
R460	1-216-849-11	METAL CHIP	220K	5%	1/10W
R461	1-216-095-00	METAL CHIP	82K	5%	1/10W
R462	1-216-849-11	METAL CHIP	220K	5%	1/10W
R463	1-216-803-11	METAL CHIP	33	5%	1/10W
R464	1-216-803-11	METAL CHIP	33	5%	1/10W
R465	1-216-821-11	METAL CHIP	1K	5%	1/10W
R466	1-216-857-11	METAL CHIP	1M	5%	1/10W
R467	1-216-809-11	METAL CHIP	100	5%	1/10W
R468	1-216-809-11	METAL CHIP	100	5%	1/10W
R469	1-216-809-11	METAL CHIP	100	5%	1/10W
R470	1-216-809-11	METAL CHIP	100	5%	1/10W
R471	1-216-809-11	METAL CHIP	100	5%	1/10W
R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R473	1-216-821-11	METAL CHIP	1K	5%	1/10W
R474	1-216-821-11	METAL CHIP	1K	5%	1/10W
R475	1-216-809-11	METAL CHIP	100	5%	1/10W
R476	1-216-809-11	METAL CHIP	100	5%	1/10W
R477	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-803-11	METAL CHIP	33	5%	1/10W
R479	1-216-809-11	METAL CHIP	100	5%	1/10W
R480	1-216-803-11	METAL CHIP	33	5%	1/10W
R481	1-216-809-11	METAL CHIP	100	5%	1/10W

AMP DIG-IN DIGITAL

Ref. No.	Part No.	Description			Remark
R482	1-216-833-11	METAL CHIP	10K	5%	1/10W
R483	1-216-821-11	METAL CHIP	1K	5%	1/10W
R484	1-216-821-11	METAL CHIP	1K	5%	1/10W
R486	1-216-017-91	RES-CHIP	47	5%	1/10W
R487	1-216-017-91	RES-CHIP	47	5%	1/10W
R488	1-216-073-91	RES-CHIP	10K	5%	1/10W
		< RELAY >			
RY401	1-515-614-11	RELAY			
RY402	1-515-614-11	RELAY			
		< VIBRATOR >			
X401	1-795-286-21	VIBRATOR, CRYSTAL			
**********					
	A-4733-949-A	DIG-IN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C112	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C113	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C114	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C115	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C116	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C117	1-128-858-11	ELECT	22uF	20%	50V
C225	1-119-799-11	ELECT	47uF	20%	25V
		< CONNECTOR >			
CN102	1-568-826-11	CONNECTOR, FFC 7P			
		< IC >			
IC101	6-600-014-01	IC TORX141L			
IC102	6-600-014-01	IC TORX141L			
IC103	6-600-014-01	IC TORX141L			
IC104	6-600-012-11	IC TOTX141L(RED)			
		< JACK >			
J101	1-778-228-11	JACK, PIN 1P (COAX IN)			
		< RESISTOR >			
R101	1-216-022-00	METAL CHIP	75	5%	1/10W
R120	1-216-025-11	RES-CHIP	100	5%	1/10W
R121	1-216-025-11	RES-CHIP	100	5%	1/10W
R122	1-216-025-11	RES-CHIP	100	5%	1/10W
R123	1-216-025-11	RES-CHIP	100	5%	1/10W
**********					
	A-4733-957-A	DIGTAL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C104	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C105	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C106	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C107	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C108	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remark
C109	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C110	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C118	1-128-844-11	ELECT	33uF	20%	25V
C119	1-128-844-11	ELECT	33uF	20%	25V
C120	1-128-844-11	ELECT	33uF	20%	25V
C121	1-128-844-11	ELECT	33uF	20%	25V
C122	1-128-844-11	ELECT	33uF	20%	25V
C123	1-128-844-11	ELECT	33uF	20%	25V
C124	1-128-844-11	ELECT	33uF	20%	25V
C125	1-128-844-11	ELECT	33uF	20%	25V
C126	1-128-844-11	ELECT	33uF	20%	25V
C127	1-128-844-11	ELECT	33uF	20%	25V
C128	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C129	1-119-824-11	ELECT	10uF	20%	50V
C130	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C131	1-119-824-11	ELECT	10uF	20%	50V
C132	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C133	1-119-799-11	ELECT	47uF	20%	25V
C134	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C135	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C139	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C140	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C141	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C142	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C143	1-119-824-11	ELECT	10uF	20%	50V
C146	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C147	1-119-799-11	ELECT	47uF	20%	25V
C148	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C149	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C150	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C151	1-128-844-11	ELECT	33uF	20%	25V
C152	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C153	1-128-844-11	ELECT	33uF	20%	25V
C154	1-128-844-11	ELECT	33uF	20%	25V
C155	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C156	1-128-844-11	ELECT	33uF	20%	25V
C157	1-119-799-11	ELECT	47uF	20%	25V
C158	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C159	1-119-824-11	ELECT	10uF	20%	50V
C160	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C161	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C162	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C163	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C164	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C165	1-119-824-11	ELECT	10uF	20%	50V
C166	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C167	1-163-233-91	CERAMIC CHIP	18PF	5%	50V
C168	1-163-233-91	CERAMIC CHIP	18PF	5%	50V
C169	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C170	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C171	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C173	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C174	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C175	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C176	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C180	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C182	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C183	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C184	1-128-833-91	ELECT	330uF	20%	10V
C185	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C186	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C187	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C188	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C189	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C190	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C191	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C192	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C193	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C194	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C196	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C197	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C198	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C199	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C200	1-119-799-11	ELECT	47uF	20%	25V
C201	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C202	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C203	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C204	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C205	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C206	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C207	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C209	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C210	1-119-824-11	ELECT	10uF	20%	50V
C211	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C215	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C216	1-165-319-11	CERAMIC CHIP	0.1uF		0V
C217	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C218	1-128-834-11	ELECT	470uF	20%	10V
C219	1-119-799-11	ELECT	47uF	20%	25V
C220	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C221	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C222	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C223	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C224	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C227	1-119-799-11	ELECT	47uF	20%	25V
C228	1-119-799-11	ELECT	47uF	20%	25V
C299	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C300	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C301	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C302	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C304	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C305	1-128-858-11	ELECT	22uF	20%	25V
		< CONNECTOR >			
CN101	1-784-776-11	CONNECTOR, FFC 15P			
CN103	1-568-826-11	CONNECTOR, FFC 7P			
CN104	1-784-766-11	CONNECTOR, FFC 5P			
CN105	1-568-838-11	CONNECTOR, FFC 21P			
CN107	1-784-923-11	PIN, CONNECTOR 7P			
CN108	1-784-774-11	CONNECTOR, FFC 13P			
		< DIODE >			
D102	8-719-016-74	DIODE 1SS352			

Ref. No.	Part No.	Description			Remark
		< FERRITE BEAD >			
FB101	1-469-152-11	FERRITE	0uH		
FB102	1-469-152-11	FERRITE	0uH		
FB103	1-469-152-11	FERRITE	0uH		
FB105	1-414-813-11	FERRITE	0uH		
FB106	1-469-152-11	FERRITE	0uH		
FB108	1-414-813-11	FERRITE	0uH		
FB109	1-469-140-21	FERRITE	0uH		
FB110	1-469-152-11	FERRITE	0uH		
FB111	1-414-813-11	FERRITE	0uH		
FB112	1-216-864-11	METAL CHIP	0	5%	1/10W
FB113	1-469-450-21	FERRITE	0uH		
		< FUSE HOLDER >			
FH901	1-533-399-11	FUSE HOLDER			
FH902	1-533-399-11	FUSE HOLDER			
		< IC >			
IC105	8-759-926-17	IC TC74HC153AF(EL)			
IC106	8-759-008-67	IC BU4066BCF-E2			
IC107	8-759-242-70	IC TC7WU04F(TE12R)			
IC108	8-759-525-25	IC BU4052BCF-E2			
IC111	8-759-825-15	IC LC89056W-E			
IC112	8-759-636-55	IC M5218AFP-T1			
IC113	8-759-560-56	IC PCM1800E/2K			
IC114	8-759-835-63	IC NJM2391DL1-26(TE1)			
IC115	8-759-698-76	IC CXD9617R			
IC116	6-704-832-01	IC IS61LV6416-10TLT			
IC117	8-759-641-86	IC BR24C16F-E2			
IC118	6-802-991-01	IC MB90478PF-G-149-BND			
IC119	6-702-913-01	IC S-80929CNMC-G8ZT2G			
		< JACK >			
J102	1-784-920-11	JACK, PIN 6P (TV/SAT,DVD,VIDEO)			
J103	1-784-429-11	JACK, PIN 4P (TV/SAT)			
		< RESISTOR >			
Q101	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q102	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q103	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q104	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q105	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q106	8-729-027-43	TRANSISTOR DTC114EKA-T146			
		< CAPACITOR >			
R102	1-216-097-11	RES-CHIP	100K	5%	1/10W
R103	1-216-097-11	RES-CHIP	100K	5%	1/10W
R104	1-216-097-11	RES-CHIP	100K	5%	1/10W
R105	1-216-097-11	RES-CHIP	100K	5%	1/10W
R106	1-216-097-11	RES-CHIP	100K	5%	1/10W
R107	1-216-097-11	RES-CHIP	100K	5%	1/10W
R108	1-216-097-11	RES-CHIP	100K	5%	1/10W
R109	1-216-097-11	RES-CHIP	100K	5%	1/10W
R110	1-216-097-11	RES-CHIP	100K	5%	1/10W
R111	1-216-097-11	RES-CHIP	100K	5%	1/10W
R112	1-216-097-11	RES-CHIP	100K	5%	1/10W

DIGITAL

Ref. No.	Part No.	Description			Remark
R113	1-216-097-11	RES-CHIP	100K	5%	1/10W
R114	1-216-049-11	RES-CHIP	1K	5%	1/10W
R115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R116	1-216-049-11	RES-CHIP	1K	5%	1/10W
R117	1-216-049-11	RES-CHIP	1K	5%	1/10W
R118	1-216-049-11	RES-CHIP	1K	5%	1/10W
R119	1-216-049-11	RES-CHIP	1K	5%	1/10W
R124	1-216-049-11	RES-CHIP	1K	5%	1/10W
R125	1-216-049-11	RES-CHIP	1K	5%	1/10W
R126	1-216-049-11	RES-CHIP	1K	5%	1/10W
R127	1-216-049-11	RES-CHIP	1K	5%	1/10W
R128	1-216-049-11	RES-CHIP	1K	5%	1/10W
R129	1-216-049-11	RES-CHIP	1K	5%	1/10W
R130	1-216-049-11	RES-CHIP	1K	5%	1/10W
R131	1-216-097-11	RES-CHIP	100K	5%	1/10W
R132	1-216-097-11	RES-CHIP	100K	5%	1/10W
R133	1-216-097-11	RES-CHIP	100K	5%	1/10W
R134	1-216-097-11	RES-CHIP	100K	5%	1/10W
R135	1-216-097-11	RES-CHIP	100K	5%	1/10W
R136	1-216-097-11	RES-CHIP	100K	5%	1/10W
R137	1-216-097-11	RES-CHIP	100K	5%	1/10W
R138	1-216-081-00	METAL CHIP	22K	5%	1/10W
R139	1-216-081-00	METAL CHIP	22K	5%	1/10W
R140	1-216-013-00	METAL CHIP	33	5%	1/10W
R141	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R142	1-216-097-11	RES-CHIP	100K	5%	1/10W
R143	1-216-115-00	METAL CHIP	560K	5%	1/10W
R144	1-216-013-00	METAL CHIP	33	5%	1/10W
R145	1-216-025-11	RES-CHIP	100	5%	1/10W
R146	1-216-073-91	RES-CHIP	10K	5%	1/10W
R147	1-216-073-91	RES-CHIP	10K	5%	1/10W
R148	1-216-097-11	RES-CHIP	100K	5%	1/10W
R149	1-216-097-11	RES-CHIP	100K	5%	1/10W
R150	1-216-097-11	RES-CHIP	100K	5%	1/10W
R151	1-216-097-11	RES-CHIP	100K	5%	1/10W
R152	1-216-085-91	RES-CHIP	33K	5%	1/10W
R153	1-216-025-11	RES-CHIP	100	5%	1/10W
R154	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R155	1-216-073-91	RES-CHIP	10K	5%	1/10W
R156	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R157	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R158	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R159	1-216-073-91	RES-CHIP	10K	5%	1/10W
R160	1-216-025-11	RES-CHIP	100	5%	1/10W
R161	1-216-025-11	RES-CHIP	100	5%	1/10W
R162	1-216-073-91	RES-CHIP	10K	5%	1/10W
R163	1-216-073-91	RES-CHIP	10K	5%	1/10W
R164	1-216-025-11	RES-CHIP	100	5%	1/10W
R165	1-216-073-91	RES-CHIP	10K	5%	1/10W
R166	1-216-025-11	RES-CHIP	100	5%	1/10W
R168	1-216-025-11	RES-CHIP	100	5%	1/10W
R169	1-216-025-11	RES-CHIP	100	5%	1/10W
R170	1-216-049-11	RES-CHIP	1K	5%	1/10W
R171	1-216-025-11	RES-CHIP	100	5%	1/10W
R172	1-216-121-11	RES-CHIP	1M	5%	1/10W
R173	1-216-025-11	RES-CHIP	100	5%	1/10W
R174	1-216-025-11	RES-CHIP	100	5%	1/10W
R175	1-216-025-11	RES-CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R176	1-216-025-11	RES-CHIP	100	5%	1/10W
R177	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R178	1-216-049-11	RES-CHIP	1K	5%	1/10W
R179	1-216-295-91	SHORT	0		
R183	1-216-073-91	RES-CHIP	10K	5%	1/10W
R184	1-216-049-11	RES-CHIP	1K	5%	1/10W
R185	1-216-049-11	RES-CHIP	1K	5%	1/10W
R186	1-216-033-00	METAL CHIP	220	5%	1/10W
R187	1-216-033-00	METAL CHIP	220	5%	1/10W
R188	1-216-033-00	METAL CHIP	220	5%	1/10W
R189	1-216-033-00	METAL CHIP	220	5%	1/10W
R190	1-216-033-00	METAL CHIP	220	5%	1/10W
R191	1-216-033-00	METAL CHIP	220	5%	1/10W
R192	1-216-033-00	METAL CHIP	220	5%	1/10W
R193	1-216-033-00	METAL CHIP	220	5%	1/10W
R194	1-216-033-00	METAL CHIP	220	5%	1/10W
R195	1-216-033-00	METAL CHIP	220	5%	1/10W
R196	1-216-033-00	METAL CHIP	220	5%	1/10W
R197	1-216-073-91	RES-CHIP	10K	5%	1/10W
R198	1-216-073-91	RES-CHIP	10K	5%	1/10W
R200	1-216-025-11	RES-CHIP	100	5%	1/10W
R201	1-216-025-11	RES-CHIP	100	5%	1/10W
R202	1-216-864-11	METAL CHIP	0	5%	1/10W
R203	1-216-049-11	RES-CHIP	1K	5%	1/10W
R204	1-216-025-11	RES-CHIP	100	5%	1/10W
R205	1-216-025-11	RES-CHIP	100	5%	1/10W
R206	1-216-025-11	RES-CHIP	100	5%	1/10W
R207	1-216-049-11	RES-CHIP	1K	5%	1/10W
R208	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R209	1-216-049-11	RES-CHIP	1K	5%	1/10W
R210	1-216-049-11	RES-CHIP	1K	5%	1/10W
R211	1-216-049-11	RES-CHIP	1K	5%	1/10W
R212	1-216-049-11	RES-CHIP	1K	5%	1/10W
R213	1-216-049-11	RES-CHIP	1K	5%	1/10W
R214	1-216-049-11	RES-CHIP	1K	5%	1/10W
R215	1-216-049-11	RES-CHIP	1K	5%	1/10W
R216	1-216-049-11	RES-CHIP	1K	5%	1/10W
R218	1-216-025-11	RES-CHIP	100	5%	1/10W
R219	1-216-025-11	RES-CHIP	100	5%	1/10W
R220	1-216-025-11	RES-CHIP	100	5%	1/10W
R221	1-216-049-11	RES-CHIP	1K	5%	1/10W
R222	1-216-073-91	RES-CHIP	10K	5%	1/10W
R223	1-216-049-11	RES-CHIP	1K	5%	1/10W
R224	1-216-025-11	RES-CHIP	100	5%	1/10W
R225	1-216-025-11	RES-CHIP	100	5%	1/10W
R226	1-216-049-11	RES-CHIP	1K	5%	1/10W
R227	1-216-049-11	RES-CHIP	1K	5%	1/10W
R228	1-216-073-91	RES-CHIP	10K	5%	1/10W
R230	1-216-097-11	RES-CHIP	100K	5%	1/10W
R231	1-216-049-11	RES-CHIP	1K	5%	1/10W
R232	1-216-073-91	RES-CHIP	10K	5%	1/10W
R233	1-216-073-91	RES-CHIP	10K	5%	1/10W
R234	1-216-073-91	RES-CHIP	10K	5%	1/10W
R235	1-216-049-11	RES-CHIP	1K	5%	1/10W
R236	1-216-073-91	RES-CHIP	10K	5%	1/10W
R237	1-216-049-11	RES-CHIP	1K	5%	1/10W
R238	1-216-073-91	RES-CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R239	1-216-049-11	RES-CHIP	1K	5%	1/10W
R240	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R241	1-216-049-11	RES-CHIP	1K	5%	1/10W
R242	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R243	1-216-049-11	RES-CHIP	1K	5%	1/10W
R244	1-216-049-11	RES-CHIP	1K	5%	1/10W
R245	1-216-049-11	RES-CHIP	1K	5%	1/10W
R246	1-216-049-11	RES-CHIP	1K	5%	1/10W
R247	1-216-073-91	RES-CHIP	10K	5%	1/10W
R248	1-216-025-11	RES-CHIP	100	5%	1/10W
R249	1-216-073-91	RES-CHIP	10K	5%	1/10W
R250	1-216-025-11	RES-CHIP	100	5%	1/10W
R251	1-216-025-11	RES-CHIP	100	5%	1/10W
R252	1-216-073-91	RES-CHIP	10K	5%	1/10W
R253	1-216-025-11	RES-CHIP	100	5%	1/10W
R254	1-216-025-11	RES-CHIP	100	5%	1/10W
R255	1-216-089-91	RES-CHIP	47K	5%	1/10W
R256	1-216-025-11	RES-CHIP	100	5%	1/10W
R257	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R258	1-216-049-11	RES-CHIP	1K	5%	1/10W
R259	1-216-089-91	RES-CHIP	47K	5%	1/10W
R260	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R261	1-216-049-11	RES-CHIP	1K	5%	1/10W
R262	1-216-073-91	RES-CHIP	10K	5%	1/10W
R263	1-216-073-91	RES-CHIP	10K	5%	1/10W
R265	1-216-085-91	RES-CHIP	33K	5%	1/10W
R266	1-216-025-11	RES-CHIP	100	5%	1/10W
R267	1-216-073-91	RES-CHIP	10K	5%	1/10W
R268	1-216-049-11	RES-CHIP	1K	5%	1/10W
R269	1-216-025-11	RES-CHIP	100	5%	1/10W
R270	1-216-025-11	RES-CHIP	100	5%	1/10W
R271	1-216-049-11	RES-CHIP	1K	5%	1/10W
R272	1-216-049-11	RES-CHIP	1K	5%	1/10W
R273	1-216-049-11	RES-CHIP	1K	5%	1/10W
R274	1-216-049-11	RES-CHIP	1K	5%	1/10W
R275	1-216-073-91	RES-CHIP	10K	5%	1/10W
R276	1-216-073-91	RES-CHIP	10K	5%	1/10W
R277	1-216-073-91	RES-CHIP	10K	5%	1/10W
R278	1-216-073-91	RES-CHIP	10K	5%	1/10W
R279	1-216-025-11	RES-CHIP	100	5%	1/10W
R280	1-216-049-11	RES-CHIP	1K	5%	1/10W
R281	1-216-049-11	RES-CHIP	1K	5%	1/10W
R282	1-216-049-11	RES-CHIP	1K	5%	1/10W
R283	1-216-049-11	RES-CHIP	1K	5%	1/10W
R284	1-216-049-11	RES-CHIP	1K	5%	1/10W
R285	1-216-049-11	RES-CHIP	1K	5%	1/10W
R286	1-216-073-91	RES-CHIP	10K	5%	1/10W
R287	1-216-073-91	RES-CHIP	10K	5%	1/10W
R288	1-216-089-91	RES-CHIP	47K	5%	1/10W
R289	1-216-089-91	RES-CHIP	47K	5%	1/10W
R290	1-216-864-11	METAL CHIP	0	5%	1/10W
R292	1-216-073-91	RES-CHIP	10K	5%	1/10W
R293	1-216-073-91	RES-CHIP	10K	5%	1/10W
R294	1-216-073-91	RES-CHIP	10K	5%	1/10W
R295	1-216-073-91	RES-CHIP	10K	5%	1/10W
R296	1-216-097-11	RES-CHIP	100K	5%	1/10W
R297	1-216-073-91	RES-CHIP	10K	5%	1/10W
R298	1-216-073-91	RES-CHIP	10K	5%	1/10W
R299	1-216-049-11	RES-CHIP	1K	5%	1/10W
R300	1-216-073-91	RES-CHIP	10K	5%	1/10W
R301	1-216-073-91	RES-CHIP	10K	5%	1/10W
R307	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R308	1-216-033-00	METAL CHIP	220	5%	1/10W
R309	1-216-033-00	METAL CHIP	220	5%	1/10W
R310	1-216-033-00	METAL CHIP	220	5%	1/10W
R311	1-216-033-00	METAL CHIP	220	5%	1/10W
R312	1-216-033-00	METAL CHIP	220	5%	1/10W
R313	1-216-033-00	METAL CHIP	220	5%	1/10W
R314	1-216-033-00	METAL CHIP	220	5%	1/10W
R315	1-216-033-00	METAL CHIP	220	5%	1/10W
R316	1-216-033-00	METAL CHIP	220	5%	1/10W
R317	1-216-033-00	METAL CHIP	220	5%	1/10W
R318	1-216-033-00	METAL CHIP	220	5%	1/10W
R319	1-216-033-00	METAL CHIP	220	5%	1/10W
R320	1-216-033-00	METAL CHIP	220	5%	1/10W
R321	1-216-033-00	METAL CHIP	220	5%	1/10W
R322	1-216-033-00	METAL CHIP	220	5%	1/10W
R323	1-216-033-00	METAL CHIP	220	5%	1/10W
R324	1-216-033-00	METAL CHIP	220	5%	1/10W
R325	1-216-033-00	METAL CHIP	220	5%	1/10W
R326	1-216-033-00	METAL CHIP	220	5%	1/10W
R327	1-216-033-00	METAL CHIP	220	5%	1/10W
R328	1-216-033-00	METAL CHIP	220	5%	1/10W
		< VIBRATOR >			
X101	1-795-126-21	VIBRATOR, CRYSTAL (12.288MHz)			
X102	1-795-297-21	VIBRATOR, CERAMIC (13.5MHz)			
X103	1-781-356-21	VIBRATOR, CERAMIC (16MHz)			
**********					
	A-4733-964-A	DISPLAY BOARD, COMPLETE			
		**********			
	4-246-462-01	HOLDER (FL)			
*	4-921-941-11	CUSHION (FL)			
		< CAPACITOR >			
C801	1-126-795-11	ELECT	10uF	20%	50V
C802	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C803	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C804	1-126-795-11	ELECT	10uF	20%	50V
C805	1-126-795-11	ELECT	10uF	20%	50V
C806	1-163-063-00	CERAMIC CHIP	0.022uF		50V
C807	1-126-795-11	ELECT	10uF	20%	50V
C808	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C809	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C810	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C811	1-126-795-11	ELECT	10uF	20%	50V
C812	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C813	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C814	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C815	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C816	1-126-795-11	ELECT	10uF	20%	50V
C817	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C818	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C819	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C820	1-163-109-00	CERAMIC CHIP	47PF	5%	50V

DISPLAY **FILTER** **H.P** **POWER**

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN801	1-784-774-11	CONNECTOR, FFC 13P			
CN803	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< DIODE >			
D801	8-719-988-61	DIODE 1SS355TE-17			
D802	8-719-988-61	DIODE 1SS355TE-17			
D803	8-719-069-56	DIODE UDZSTE-176.2B			
D804	8-719-988-61	DIODE 1SS355TE-17			
D805	8-719-988-61	DIODE 1SS355TE-17			
		< FLUORESCENT INDICATOR TUBE >			
FL801	1-518-903-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC801	8-749-019-10	IC GP1UD28SXK			
IC802	8-759-643-83	IC uPD16315GB-3BS			
IC803	8-759-157-94	IC TC74ACT08F (EL)			
		< COIL >			
L801	1-412-963-11	INDUCTOR	100uH		
L802	1-414-402-11	INDUCTOR	47uH		
		< TRANSISTOR >			
Q801	8-729-822-05	TRANSISTOR 2SD1622-ST-TD			
Q802	8-729-822-05	TRANSISTOR 2SD1622-ST-TD			
		< RESISTOR >			
R801	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R802	1-216-073-91	RES-CHIP	10K	5%	1/10W
R803	1-216-041-00	METAL CHIP	470	5%	1/10W
R804	1-216-041-00	METAL CHIP	470	5%	1/10W
R805	1-216-049-11	RES-CHIP	1K	5%	1/10W
R806	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R807	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R808	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R809	1-216-025-11	RES-CHIP	100	5%	1/10W
R813	1-216-095-00	METAL CHIP	82K	5%	1/10W
R814	1-216-097-11	RES-CHIP	100K	5%	1/10W
R815	1-216-001-00	METAL CHIP	10	5%	1/10W
		< VARIABLE RESISTOR >			
RV801	1-418-773-21	ENCODER, ROTARY (VOLUME)			
		< SWITCH >			
S802	1-762-196-21	SWITCH, TACT (INPUT SELECTOR)			
S803	1-771-349-21	SWITCH, KEYBOARD (SOUND FIELD)			
S804	1-771-349-21	SWITCH, KEYBOARD (MUTING)			
S805	1-771-349-21	SWITCH, KEYBOARD (TUNING +)			
S806	1-771-349-21	SWITCH, KEYBOARD (TUNING -)			
		< TRANSFORMER >			
T801	1-439-998-11	TRANSFORMER, DC CONVERTER			

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Ref. No.	Part No.	Description			Remark
	1-860-429-11	FILTER BOARD			
		**********			
		< CAPACITOR >			
C2	1-164-159-11	CAP, CERAMIC 0.1MF			50V
C3	1-127-876-11	CAP, CERAMIC 0.01MF		10%	50V
C4	1-127-876-11	CAP, CERAMIC 0.01MF		10%	50V
C5	1-127-876-11	CAP, CERAMIC 0.01MF		10%	50V
C6	1-164-159-11	CAP, CERAMIC 0.1MF			50V
		< CONNECTOR >			
CN1	1-784-776-11	CONNECTOR, FFC 15P			
CN2	1-784-776-11	CONNECTOR, FFC 15P			
		< TERMINAL >			
* EP1	1-537-738-21	TERMINAL, EARTH			
		< COIL >			
L1	1-410-521-11	MICRO INDUCTOR 100uH			
L2	1-410-521-11	MICRO INDUCTOR 100uH			
L3	1-410-521-11	MICRO INDUCTOR 100uH			
L4	1-410-521-11	MICRO INDUCTOR 100uH			
L5	1-410-521-11	MICRO INDUCTOR 100uH			
L6	1-410-521-11	MICRO INDUCTOR 100uH			

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	A-4733-956-A	H.P BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C415	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C416	1-162-966-11	CERAMIC CHIP	0.0022	10%	50V
C417	1-162-966-11	CERAMIC CHIP	0.0022	10%	50V
		< FERRITE BEAD >			
FB401	1-469-152-11	FERRITE	0uH		
FB402	1-469-152-11	FERRITE	0uH		
		< JACK >			
J401	1-764-106-21	JACK (PHONES)			
		< SWITCH >			
S801	1-762-196-21	SWITCH, TACT (I/⏻)			

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	A-4733-960-A	POWER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C901	1-126-963-11	ELECT	4.7uF	20%	50V
⚠C902	1-104-705-11	MYLAR	0.1uF	20%	250V
⚠C903	1-104-705-11	MYLAR	0.1uF	20%	250V
C905	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠C906	1-117-699-11	CERAMIC	0.001uF	20%	250V
⚠C907	1-117-699-11	CERAMIC	0.001uF	20%	250V
C908	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
⚠C909	1-117-699-11	CERAMIC	0.001uF	20%	250V
⚠C910	1-117-699-11	CERAMIC	0.001uF	20%	250V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
C911	1-126-967-11	ELECT	47uF	20%	50V
⚠C912	1-165-626-11	ELECT	390uF	20%	400V
⚠C913	1-117-452-11	FILM	3300PF	5%	630V
C914	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C915	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
⚠C916	1-104-332-11	CERAMIC	470PF	10%	2KV
⚠C917	1-117-699-11	CERAMIC	0.001uF	20%	250V
C918	1-165-319-11	CERAMIC CHIP	0.1uF		50V
⚠C920	1-117-454-11	FILM	4700PF	5%	630V
C921	1-100-357-11	ELECT	6800uF	20%	35V
C922	1-126-960-11	ELECT	1uF	20%	50V
C924	1-126-953-11	ELECT	2200uF	20%	35V
C926	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C928	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C930	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C931	1-104-665-11	ELECT	100uF	20%	10V
C932	1-104-665-11	ELECT	100uF	20%	10V
C933	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C934	1-124-579-51	ELECT	1000uF	20%	16V
C935	1-124-579-51	ELECT	1000uF	20%	16V
C938	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C940	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR(3.96mm PITCH)2P			
CN902	1-564-320-00	PIN, CONNECTOR(3.96mm PITCH)2P			
CN903	1-784-922-11	PIN, CONNECTOR 5P			
CN904	1-784-926-11	PIN, CONNECTOR 11P			
* CN905	1-564-104-00	PIN, CONNECTOR(3.96mm PITCH)3P			
CN906	1-779-978-11	PIN, CONNECTOR 3P			
		< DIODE >			
D902	8-719-200-93	DIODE 11EQS10-TA2			
D903	8-719-084-58	DIODE RBV-406			
D905	8-719-978-33	DIODE DTZ-TT11-6.8B			
D906	8-719-200-93	DIODE 11EQS10-TA2			
D907	8-719-200-93	DIODE 11EQS10-TA2			
D908	6-500-241-01	DIODE SARS03			
D911	8-719-313-14	DIODE FML-22S			
D912	8-719-069-55	DIODE UDZSTE-175.6B			
D914	8-719-210-21	DIODE 11EQS04			
D916	8-719-083-89	DIODE 11ES2N-TB5			
D917	8-719-083-89	DIODE 11ES2N-TB5			
D918	8-719-210-21	DIODE 11EQS04			
D919	6-500-522-21	DIODE 10EDB40-TB3			
D920	6-500-522-21	DIODE 10EDB40-TB3			
D931	8-719-083-67	DIODE UDZSTE-1720B			
D932	8-719-083-85	DIODE UDZS-TE17-22B			
D933	8-719-200-93	DIODE 11EQS10-TA2			
		< TERMINAL >			
* EP901	1-537-738-21	TERMINAL, EARTH			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC901	6-703-098-01	IC STR-F6267D			
IC902	6-700-388-01	IC SE-B2			
IC903	6-703-241-01	IC SI-8090JF			
IC904	8-759-970-89	IC BA10358F-T1			
IC907	6-700-812-01	IC SI-8050JF			
IC908	8-759-445-59	IC BA033T			
		< COIL >			
L901	1-424-860-11	INDUCTOR	10uH		
L902	1-414-398-11	INDUCTOR	10uH		
L903	1-414-398-11	INDUCTOR	10uH		
L904	1-414-398-11	INDUCTOR	10uH		
L905	1-414-398-11	INDUCTOR	10uH		
L906	1-419-253-11	INDUCTOR	100uH		
L907	1-414-398-11	INDUCTOR	10uH		
L908	1-414-398-11	INDUCTOR	10uH		
L909	1-419-253-11	INDUCTOR	100uH		
L910	1-414-398-11	INDUCTOR	10uH		
L911	1-414-398-11	INDUCTOR	10uH		
L912	1-414-398-11	INDUCTOR	10uH		
		< FILTER >			
⚠LF901	1-424-930-11	COIL, LINE FILTER			
⚠LF902	1-424-930-11	COIL, LINE FILTER			
		< PHOTOCOUPLER >			
PC901	8-749-019-04	IC TLP421			
PC902	8-749-019-04	IC TLP421			
		< TRANSISTOR >			
Q901	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q902	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
Q903	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q905	8-729-142-51	TRANSISTOR 2SD1616A-TP-LK			
Q906	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q908	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q913	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
Q915	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
		< RESISTOR >			
R901	1-216-033-00	METAL CHIP	220	5%	1/10W
R903	1-245-392-51	METAL OXIDE	0.15	5%	1W
R904	1-216-341-11	METAL OXIDE	0.22	5%	1W
R905	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R906	1-216-833-11	METAL CHIP	10K	5%	1/10W
R907	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R908	1-215-902-61	METAL OXIDE	47K	5%	2W
R909	1-215-901-61	METAL OXIDE	33K	5%	2W
R910	1-216-450-00	METAL OXIDE	82	5%	2W
R911	1-215-901-61	METAL OXIDE	33K	5%	2W
R912	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
⚠R913	1-249-387-11	CARBON	3.3	5%	1/4W F
R914	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R915	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R916	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

POWER **REG** **VIDEO**

Ref. No.	Part No.	Description			Remark
R917	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R918	1-216-821-11	METAL CHIP	1K	5%	1/10W
R919	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R920	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R921	1-216-820-11	METAL CHIP	820	5%	1/10W
R922	1-216-809-11	METAL CHIP	100	5%	1/10W
R924	1-216-821-11	METAL CHIP	1K	5%	1/10W
R925	1-216-821-11	METAL CHIP	1K	5%	1/10W
R926	1-216-833-11	METAL CHIP	10K	5%	1/10W
R927	1-216-845-11	METAL CHIP	100K	5%	1/10W
R928	1-216-835-11	METAL CHIP	15K	5%	1/10W
R929	1-216-821-11	METAL CHIP	1K	5%	1/10W
R930	1-219-237-11	SOLID	3.3M	20%	1/2W
R931	1-216-813-11	METAL CHIP	220	5%	1/10W
R932	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R933	1-216-820-11	METAL CHIP	820	5%	1/10W
R934	1-215-901-61	METAL OXIDE	33K	5%	2W
R935	1-216-833-11	METAL CHIP	10K	5%	1/10W
R936	1-216-821-11	METAL CHIP	1K	5%	1/10W
R938	1-216-847-11	METAL CHIP	150K	5%	1/10W
		< TRANSFORMER >			
⚠T901	1-437-866-11	TRANSFORMER, POWER			
		< THERMISTOR >			
TH901	1-803-916-11	THERMISTOR, NTC			
**********					
	1-860-430-11	REG BOARD			
		*********			
		< CAPACITOR >			
C927	1-136-165-00	CAP, METALIZED FILM 0.1MF		5%	50V
C929	1-104-665-11	CAP, ELECT 100MF		20%	10V
		< IC >			
IC906	8-759-445-59	IC BA033T			
**********					
	A-4733-953-A	VIDEO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C703	1-126-916-11	ELECT	1000uF	20%	6.3V
C704	1-126-960-11	ELECT	1uF	20%	50V
C705	1-126-960-11	ELECT	1uF	20%	50V
C706	1-126-960-11	ELECT	1uF	20%	50V
C707	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C708	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C709	1-126-933-11	ELECT	100uF	20%	16V
C710	1-126-933-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
CN701	1-784-766-11	CONNECTOR, FFC 5P			
		< IC >			
IC701	8-759-474-37	IC NJM2279M-TE2			

Ref. No.	Part No.	Description			Remark
		< JACK >			
J701	1-785-867-11	JACK, PIN 1P (VIDEO IN)			
J702	1-785-866-11	JACK, PIN 3P (DVD IN,TV/SAT IN,MONITOR OUT)			
		< RESISTOR >			
R701	1-216-022-00	METAL CHIP	75	5%	1/10W
R702	1-216-022-00	METAL CHIP	75	5%	1/10W
R703	1-216-022-00	METAL CHIP	75	5%	1/10W
R704	1-216-022-00	METAL CHIP	75	5%	1/10W
R705	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R706	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R708	1-216-097-11	RES-CHIP	100K	5%	1/10W
**********					
		MISCELLANEOUS			
		**********			
6	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)			
53	1-769-878-11	WIRE (FLAT TYPE) (7 CORE)			
54	1-769-841-11	WIRE (FLAT TYPE) (5 CORE)			
55	1-773-141-11	WIRE (FLAT TYPE) (21 CORE)			
⚠59	1-777-071-23	CORD, POWER			
60	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)			
⚠F1	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V)			
⚠T901	1-437-866-11	TRANSFORMER, POWER			
TU901	1-693-578-21	TUNER			
**********					
		ACCESSORIES			
		**********			
	1-478-002-11	COMMANDER, STANDARD (RM-U50)			
	1-501-807-12	ANTENNA (FM)			
	1-754-149-11	LOOP ANT (AM)			
	1-817-598-11	CONNECTOR (SPEAKER)			
	3-084-601-01	LID, BATTERY CASE (for RM-U50)			
	4-248-914-11	MANUAL, INSTRUCTION (ENGLISH)			
	4-248-914-11	MANUAL, INSTRUCTION (FRENCH, SPANISH)			
	4-248-914-11	MANUAL, INSTRUCTION (GERMAN, DUTCH, SPANISH)			
	4-248-914-11	MANUAL, INSTRUCTION (SWEDISH, POLISH)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2003.06	New
1.1	2004.03	Correction of test mode. (SPM-04027)